NOTICE

THIS DOCUMENT HAS BEEN REPRODUCED FROM MICROFICHE. ALTHOUGH IT IS RECOGNIZED THAT CERTAIN PORTIONS ARE ILLEGIBLE, IT IS BEING RELEASED IN THE INTEREST OF MAKING AVAILABLE AS MUCH INFORMATION AS POSSIBLE

CSCL 01A G3/02

(MASA-CR-166137-Vol-2) A STUDY OF A VTOL THRUSTING EJECTCH IN LOW SPEED FLIGHT, VOLUME 2 (Rockwell International Corp., Columbus, Onio.) 546 p HC A23/MF A01

N81-21018

VOLUME 2

Unclas 21171

A STUDY OF A VTOL THRUSTING EJECTOR IN LOW SPEED FLIGHT

BY V. R. STEWART

March 1981

Distribution of this report is provided in the interest of information exchange. Responsibility for the contents resides in the author or organization that prepared it.



Prepared under contract NAS2-10494 By

ROCKWELL INTERNATIONAL CORPORATION

Columbus, Ohio

for



AMES RESEARCH CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

A STUDY OF A VTOL THRUSTING EJECTOR IN LOW SPEED FLIGHT

BY V. R. STEWART

March 1981

Distribution of this report is provided in the interest of information exchange. Responsibility for the contents resides in the author or organization that prepared it.

Prepared under contract NAS2-10494 By

ROCKWELL INTERNATIONAL CORPORATION

Columbus, Ohio

for



AMES RESEARCH CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

FOREWORD

This report presents the results of an experimental investigation of V/STOL thrust augmenter wings in flight at slow forward speeds. Two rectangular wing planforms of differing relative chord lengths were tested. The augmenters were positioned in the aft portion of the wing so as to produce increases in circulation lift. Two blown flap configurations were also tested for comparison.

Surface pressures as well as total forces and moments were obtained on the semispan models at two flap deflections and a range of momentum coefficients. The results are compared with predictions made by use of Spence's jet flap theory.

Volume 2 contains tabulation of (1) surveys at the pressure augmenter exit, (2) downwash surveys downstream of the wing, and (3) all force and moment data acquired during the test.

PRECEDING PAGE BLANK NOT FILMED

CONTENTS

		Page
APPENDIX A	PRESSURE EXIT SURVEYS	1
APPENDIX B	DOWNWASH SURVEY CONFIGURATION	119
APPENDIX C	TABULATED DATA	164

A STUDY OF A VTOL THRUSTING EJECTOR IN LOW SPEED FLIGHT

Vearl R. Stewart Rockwell International North American Aircraft Division

APPENDIX A - PRESSURE EXIT SURVEYS

SYMBOLS

```
Wing Aspect Ratio - see Table I
                                                            cm<sup>2</sup> (inches<sup>2</sup>)
           Augmenter Exit Area Ferpendicular to
           Mean Angle
                                                            cm<sup>2</sup> (inches<sup>2</sup>)
           Nozzle Exit Area
           Wing Semispan
                                                                 (inches)
           Wing Mean Aerodynamic Chord
           Flap Chord to Wing Chord Ratio
                                   Lift/qSp
           Lift Coefficient,
                                   Drag/qSp
           Drag Coefficient,
           Augmenter Secondary Flow
           Pitching Moment Coefficient, Pitching Moment/qSpc
CM
           Momentum Coefficient, MoVi/qSR
D
                                                            meters (feet)
           Throat Width
F
           3-D Correction Factor, Function of
           AR and \phi C_{11}
           Induced Drag Correction Factor for Taper
           Induced Drag Correction Factor for Part
           Span Flaps
           Lift Correction Factor for Part Span Flaps
M
           Mach number
                                                             kg/sec. (slugs/sec.)
           Primary (nozzle) Mass Flow
           Secondary (entrained) Mass Flow
                                                             kg/sec. (slugs/sec.)
           of Augmenter
           Total Mass Flow, M + M
                                                             kg/sec. (slugs/sec.)
                                                             pascals (pounds/in.2)
P
           Pressure
                                                             pascals (pounds/in.2)
           Atmospheric Pressure
                                                             pascals (pounds/in. )
P_{S}
           Static Pressure
                                                             pascals (pounds/in.2)
           Total Pressure
           Pressure Ratio,
                               P<sub>T</sub>/P<sub>a</sub>
                                                            newtons/meter<sup>2</sup> (pounds/ft<sup>2</sup>)
           Freestream Dynamic Pressure, 1/20 V
q
                                                             newtons/meter<sup>2</sup> (pounds/ft<sup>2</sup>)
           Dynamic Pressure at Tail Location
q_{\mathbf{h}}
```

```
Thrust Recovery Factor
r
                                                         meters<sup>2</sup> (feet<sup>2</sup>)
SR
          Reference Wing Area
          Wing Thickness
                                                         cm (inches)
t
                                                         K° (R°)
t
          Temperature
                                                         newtons (pounds)
          Thrust
                                                         K* (R*)
          Total Temperature
          Velocity
                                                         meters/sec (feet/sec.)
          Freestream Velocity
                                                         meters/sec (feet/sec.)
                                                         meters/sec (feet/sec.)
          Nozzle Jet Velocity
X
          Horizontal Dimension, Positive Aft
                                                         meters (feet)
Y
          Lateral Dimension from Plane of
                                                         meters (feet)
          Symmetry, Positive Right
Z
          Vertical Dimension from WRP,
                                                         meters (feet)
          Positive Up
λ
          Taper Ratio
          Thrust Augmentation Ratio
                                                         Augmented Thrust
                                                         Isentropic Thrust
                                                         Kg/mater (slugs/ft)
          Air Density
ρ
          Angle of Attack
                                                         degrees
α
θ
          Thrust Angle
                                                         degrees
€
          Downwash Angle
                                                         degrees
          Mean Flap Angle Measured from WRP
                                                         degrees
          Centerbody Angle Measured from WRP
                                                         degrees
          Nose Flap Angle Measured from WRP
                                                         degrees
δ<sub>FWD</sub>
          Aft Flap Angle Measured from WRP
δ<sub>AFT</sub>
                                                         degrees
          Diffuser Half Angle Measured from
                                                         degrees
\sigma^{\delta}
          Mean Angle
```

LIST OF ILLUSTRATIONS

PRESSURE EXIT SURVEYS $P_T/P_0 = 1.5$

FIGURE	TITLE				RUN	CONFIGURATION		PAGE
A-1 (a-k)	AUGMENTER PRESSURE	EXIT	TOTAL	& STATIC	112	AUG. #1 DIFF. = 0 = 30°	16°,	5- 15
A-2 (a-d)	11	11	11	11	11.3	11	11	16- 19
A-3 (a-g)	11	**	##	t 1	114	11	**	20- 26
A-4 (a-1)	***	11	11	н	115	11	#1	27- 38
A-5 (a-g)	11	11	11	**	116	41	11	39- 45
A-6 (a-h)	11	11	11	11	117A	AUG. #1 DIFF. = 0 = 40°		46- 53
A-7 (a-g)	11	11	11	11	117B	11	11	54- 60
A-8 (a-h)	11	11	11	H	117C	11	11	61- 68
A-9 (a-g)	11	11	11	11	117D	11	11	69- 75
A-10 (a-f)	11	††	11	11	119	AUG. #1 DIFF. = 0 = 40°		76- 81
A-11 (a-e)	11	11	***	tt	120A	11	ff	82- 86
A-12 (a-f)	11	**	II	**	120B	11	11	87- 92
A-13 (a-f)	11	**	11	**	120C	11	Ħ	93- 98
A-14 (a-f)	11	11	tt	**	120D	11	11	99-104
A-15 (a-d)	11	11	11	11	121A	AUG. #3 DIFF. = 0 = 40°		105-108
A-16 (a-j)	11	11	71	11	121B	**	. 11	109-118

Figure A-1 a. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

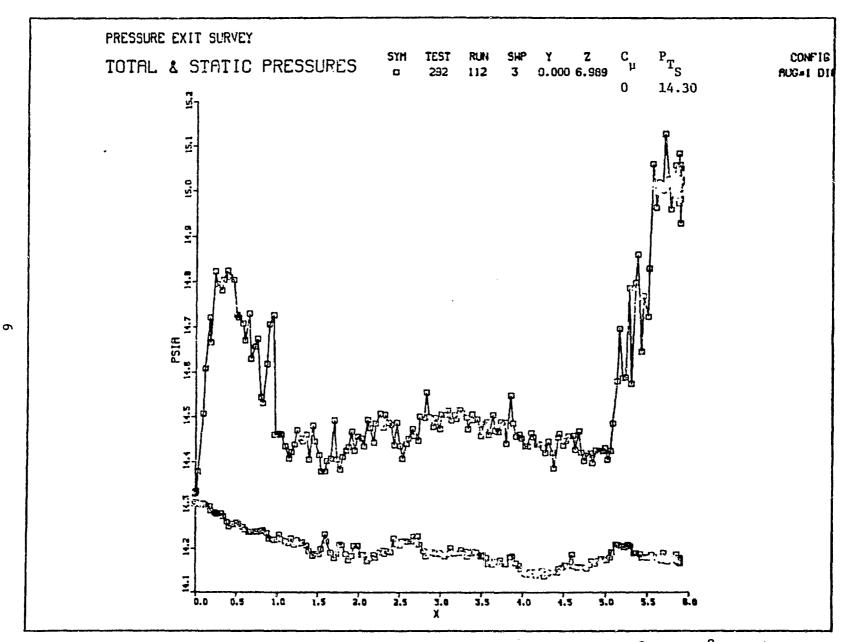
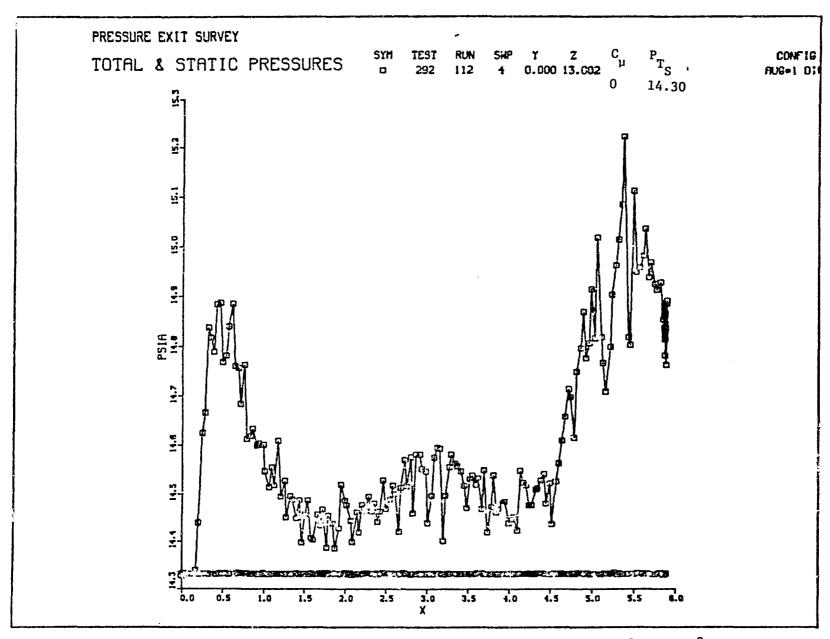


Figure A-1 b. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0



7

Figure A-1 c. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

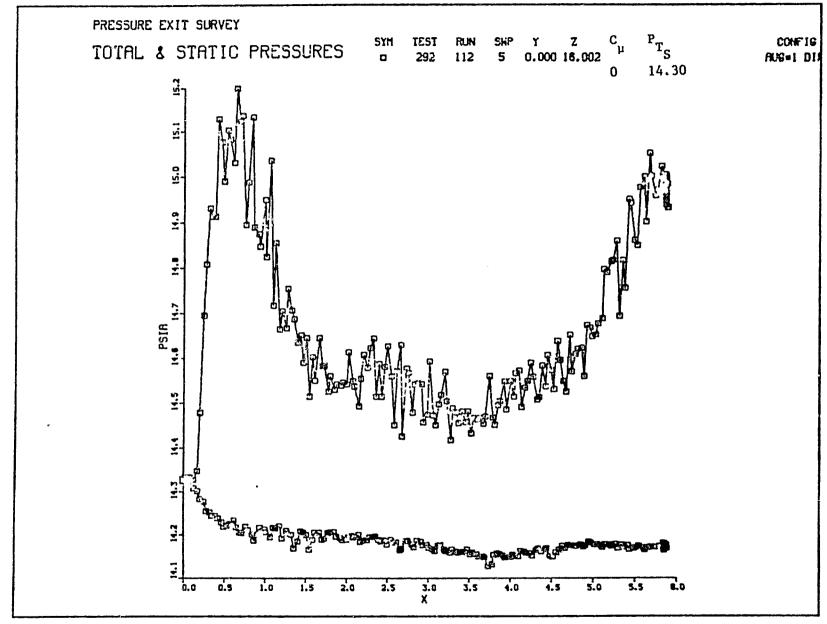


Figure A-1 d. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

9

Figure A-1 e. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff - 16° , θ = 30° , α = 0

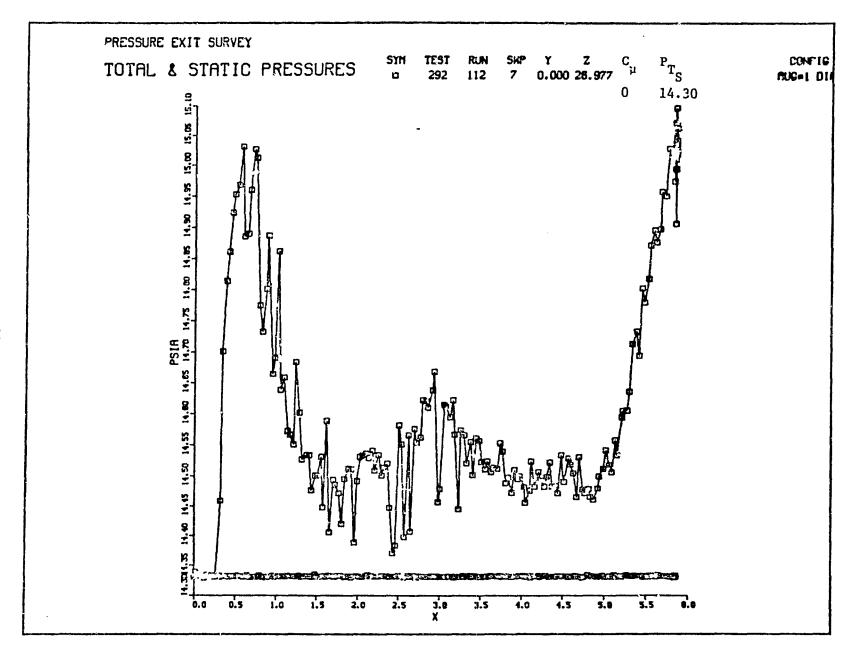


Figure A-1 f. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

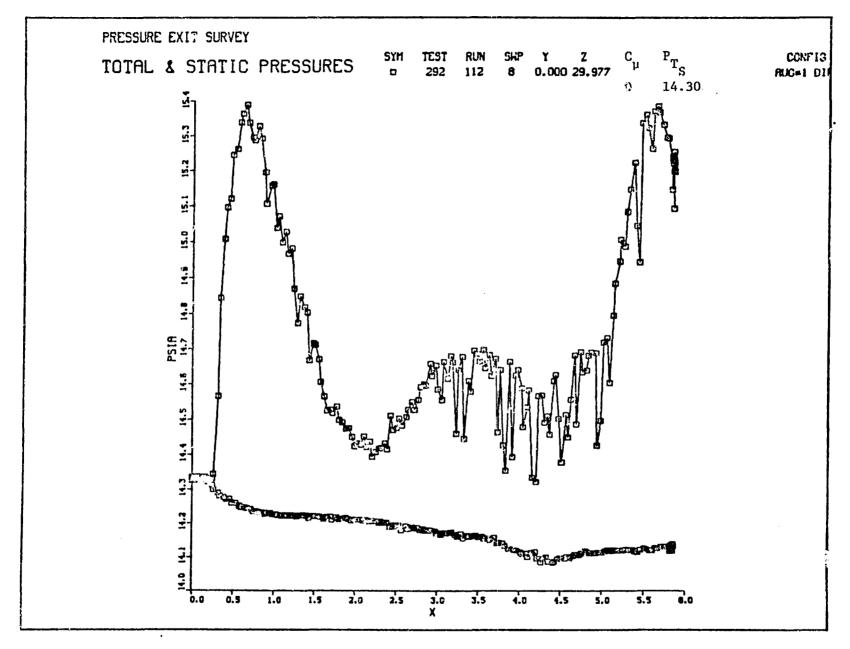


Figure A-1 g. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

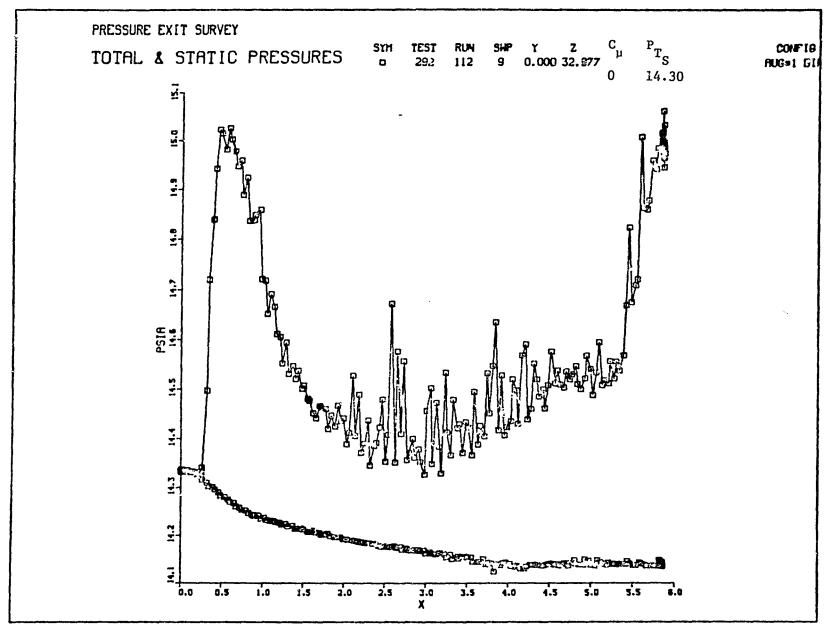


Figure A-1 h. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

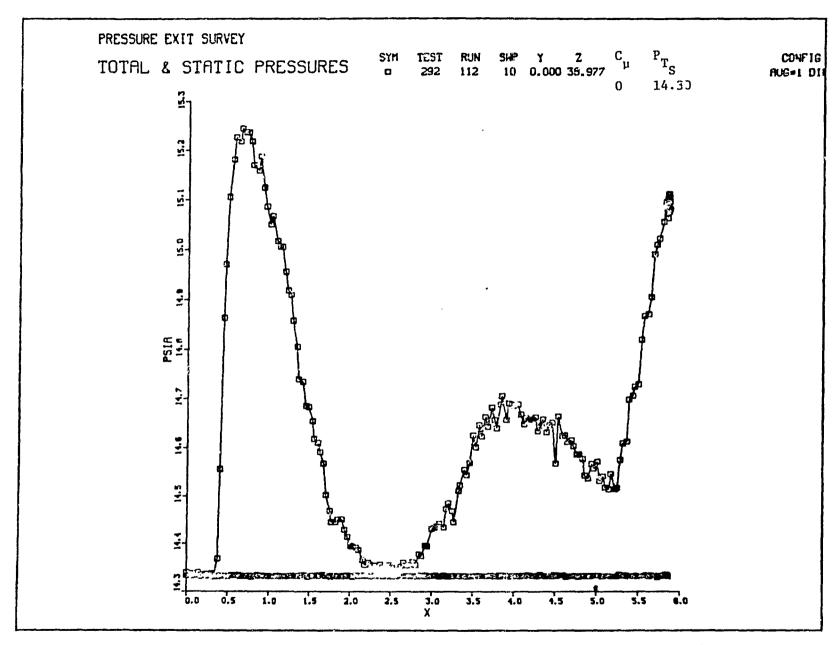


Figure A-1 i. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

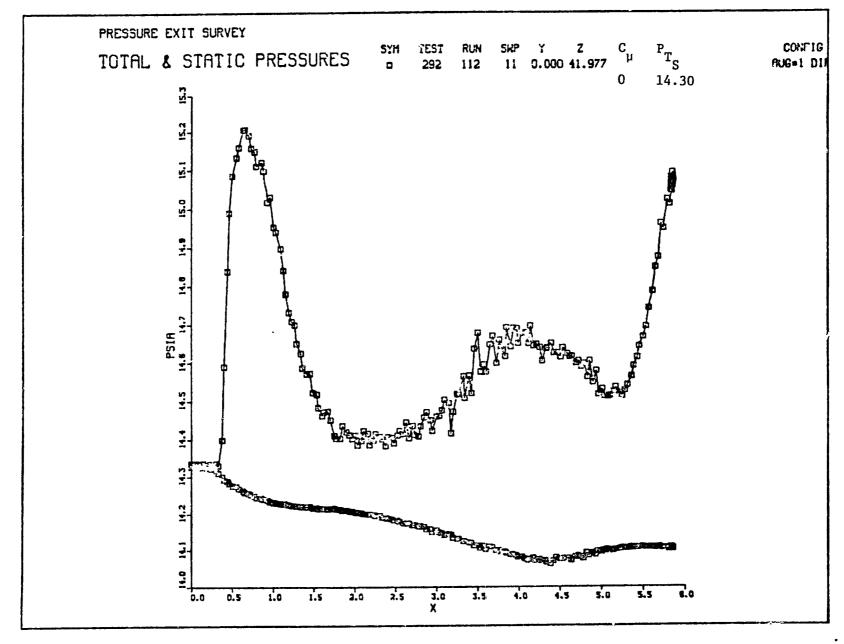


Figure A-1 j. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , 3 = 30° , α = 0

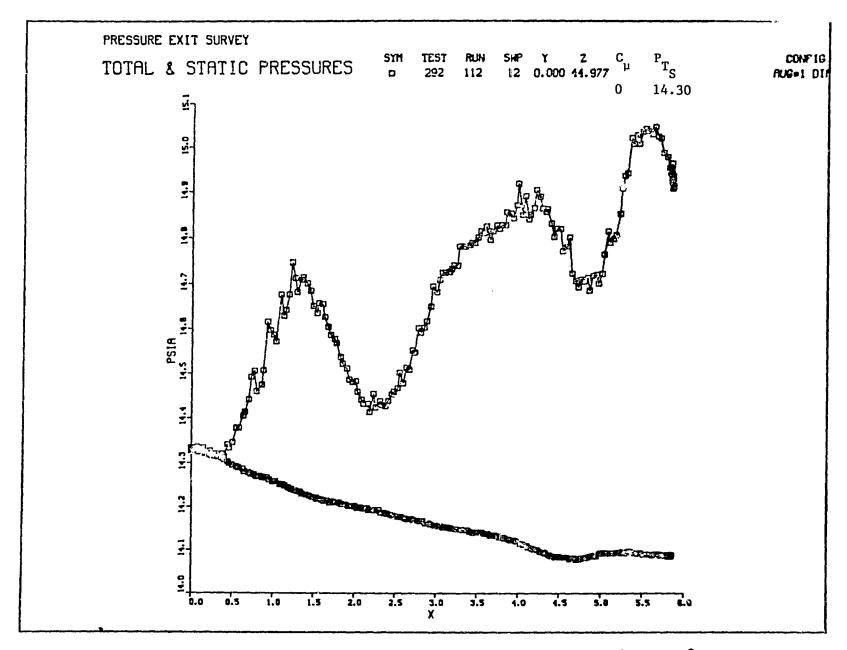


Figure A-1 k. Augmenter Exit Total & Static Pressure, Augmenter #1, Diff = 16° , θ = 30° , α = 0

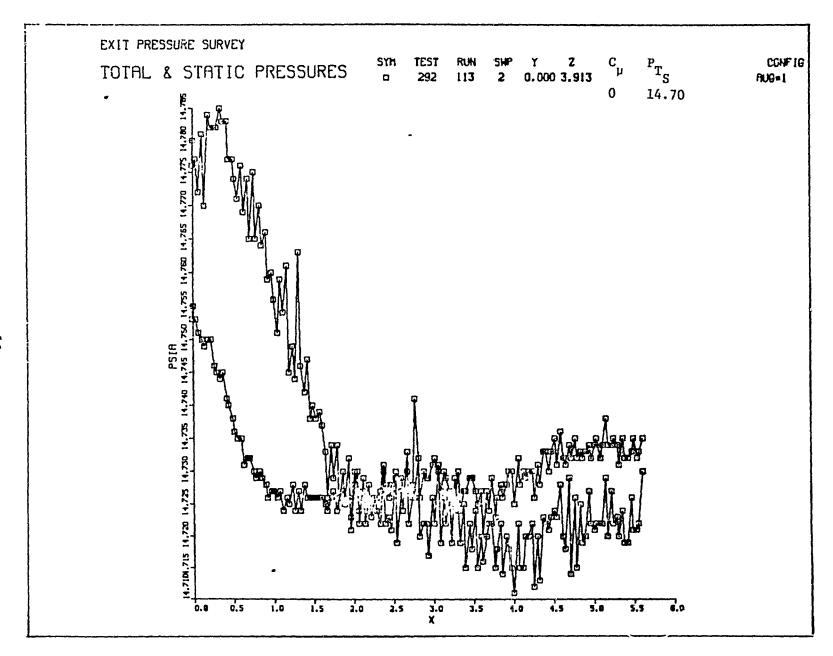


Figure A-2 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

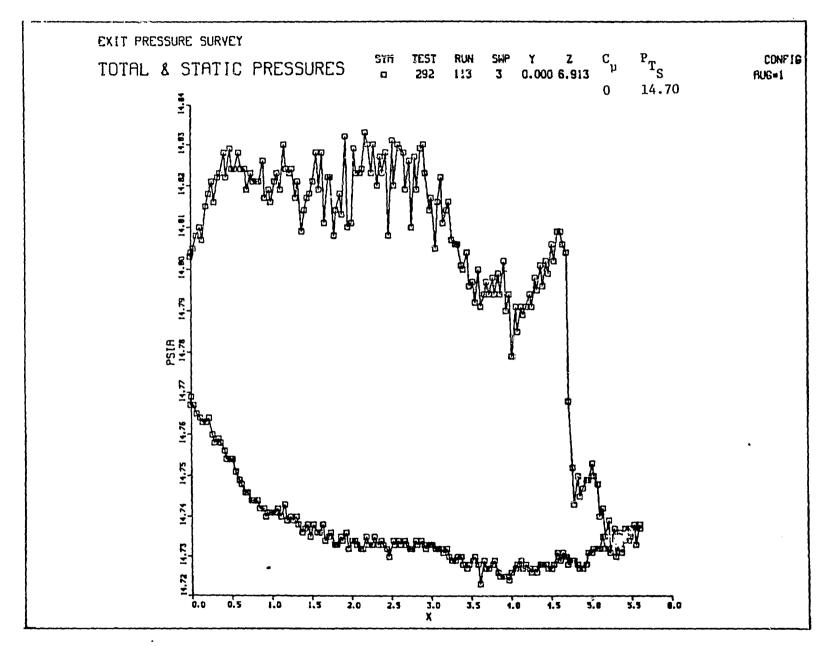


Figure A-2 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

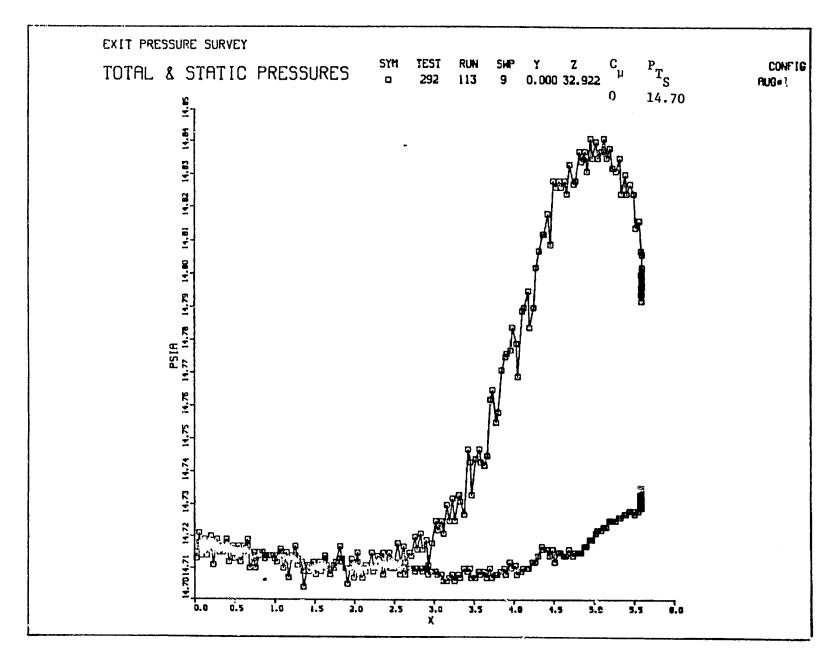


Figure A-2 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff - 16° , θ = 30° , α = 0

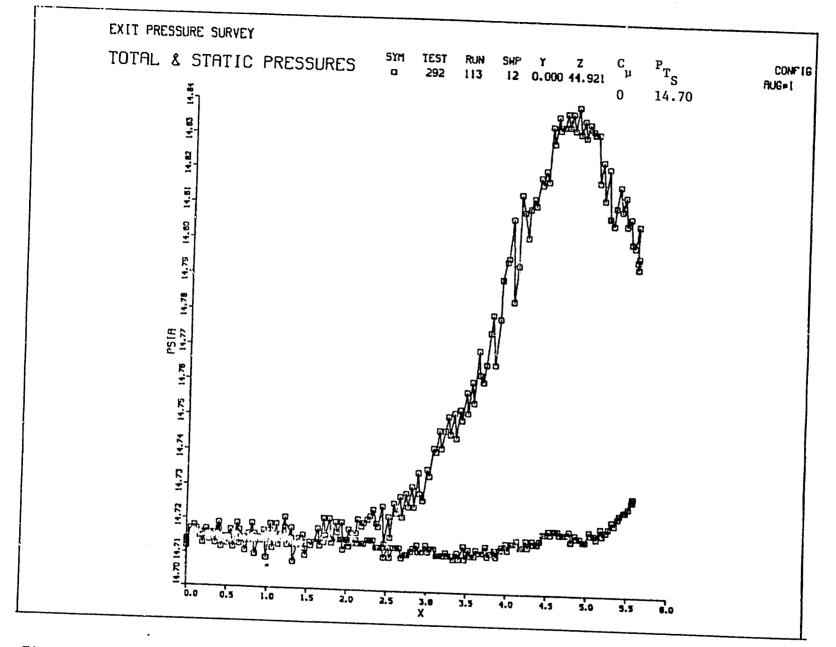


Figure A-2 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

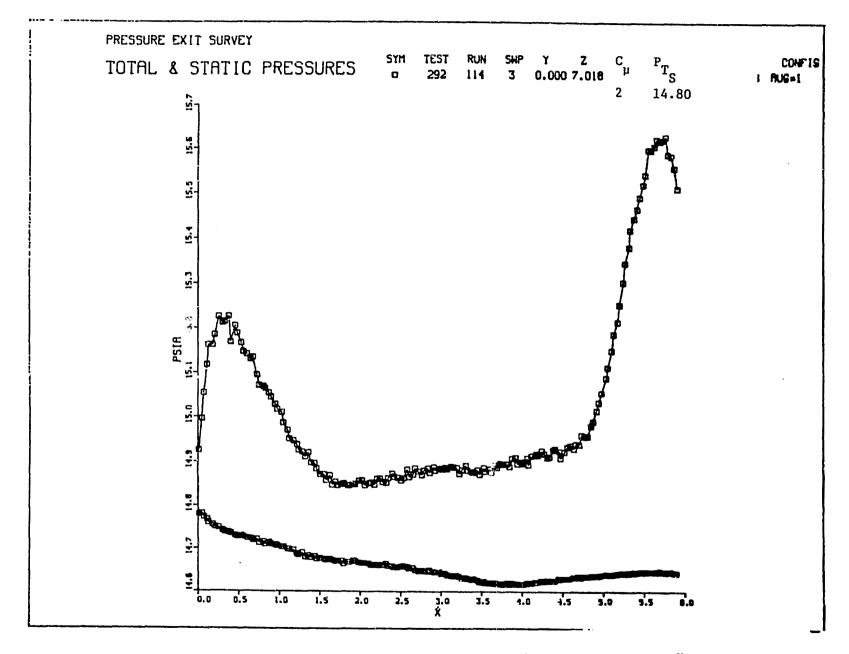


Figure A-3 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , $\theta = 30^{\circ}$, $\alpha = 0^{\circ}$

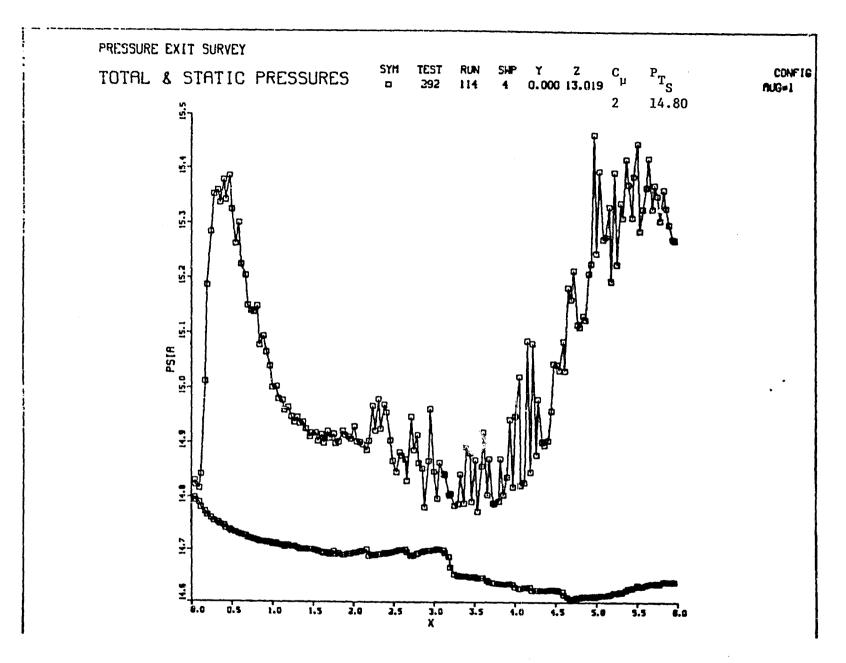


Figure A-3 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff - 16° , $\theta = 30^{\circ}$, $\alpha = 0$

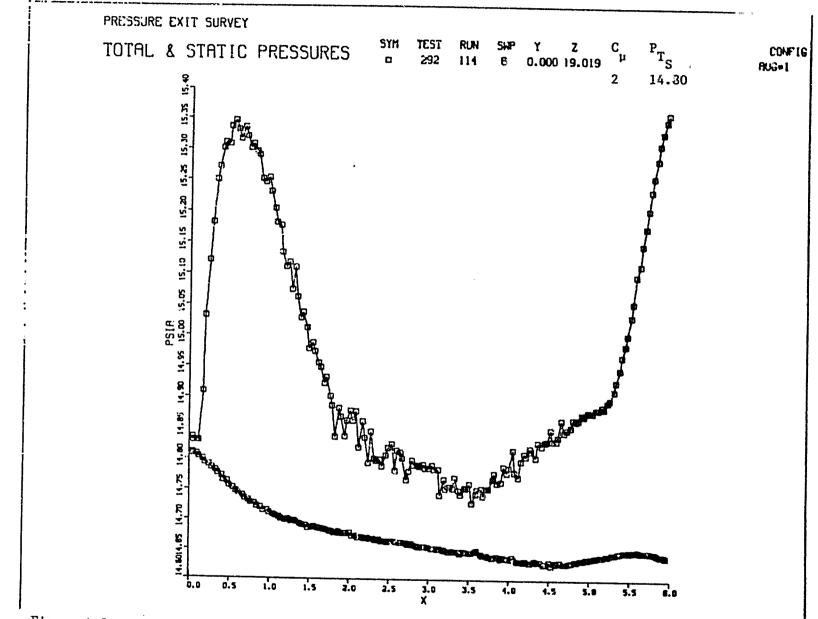


Figure A-3 c. Augmenter Exit Total & Statis Pressure, Aug. #1, Diff = 16° , $\theta = 30^{\circ}$, $\alpha = 0$

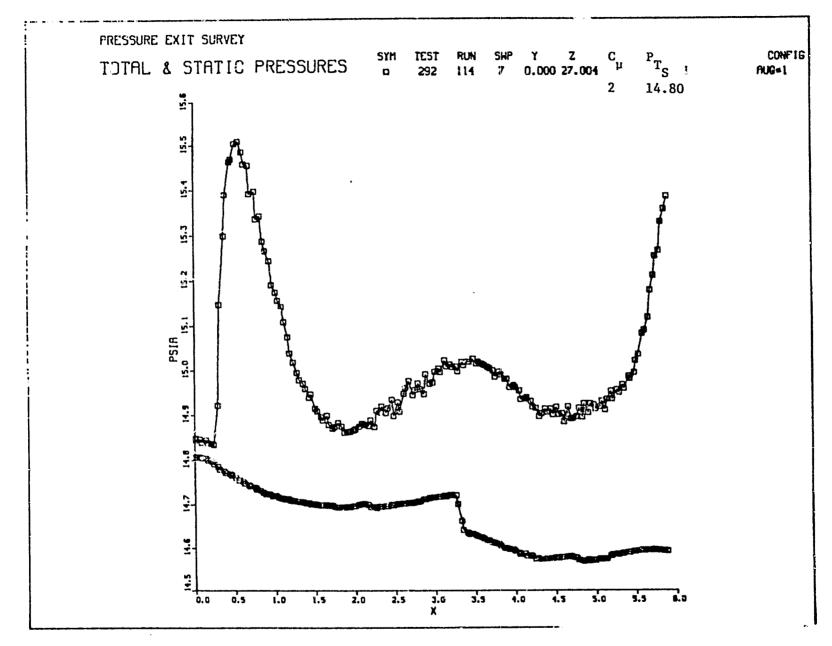


Figure A-3 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , 9 = 30° , α = 0

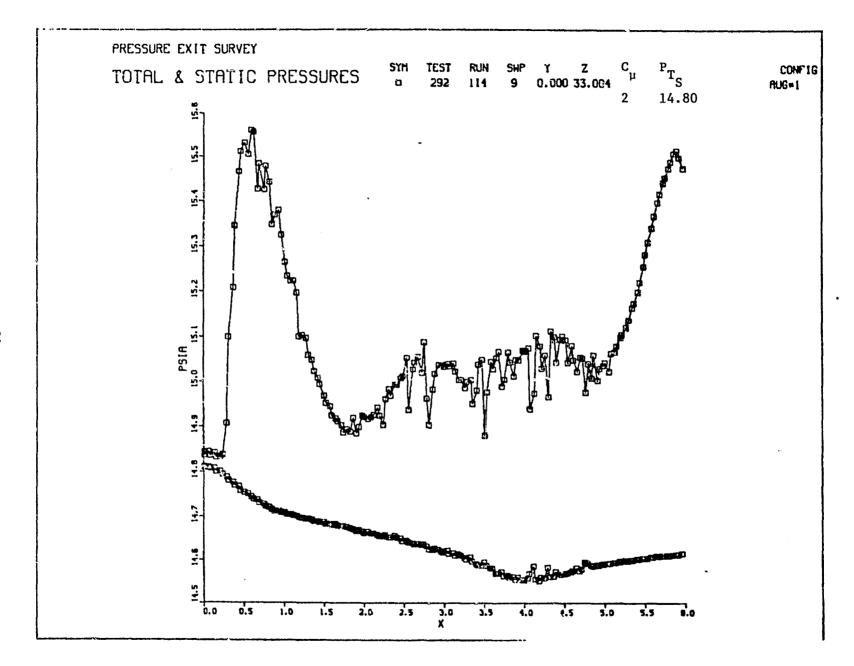


Figure A-3 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

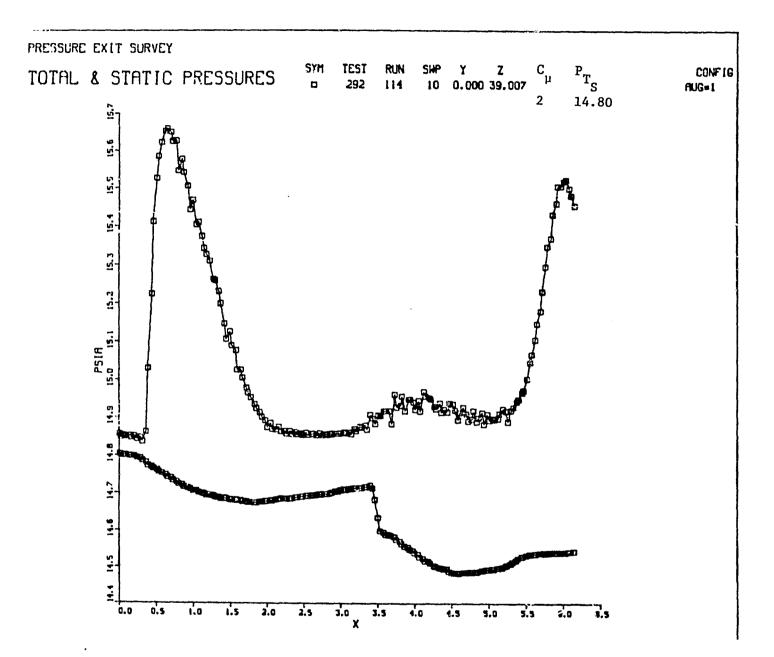


Figure A-3 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

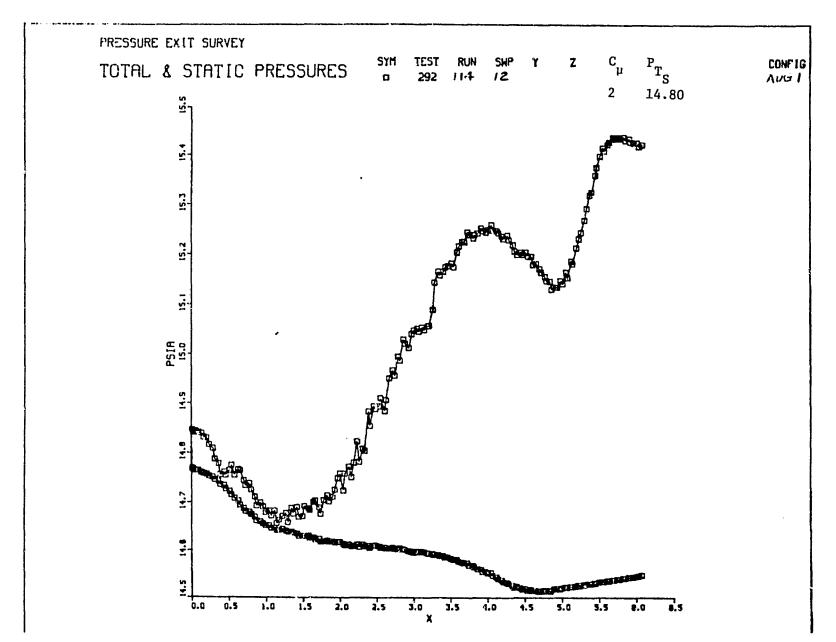


Figure A-3 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

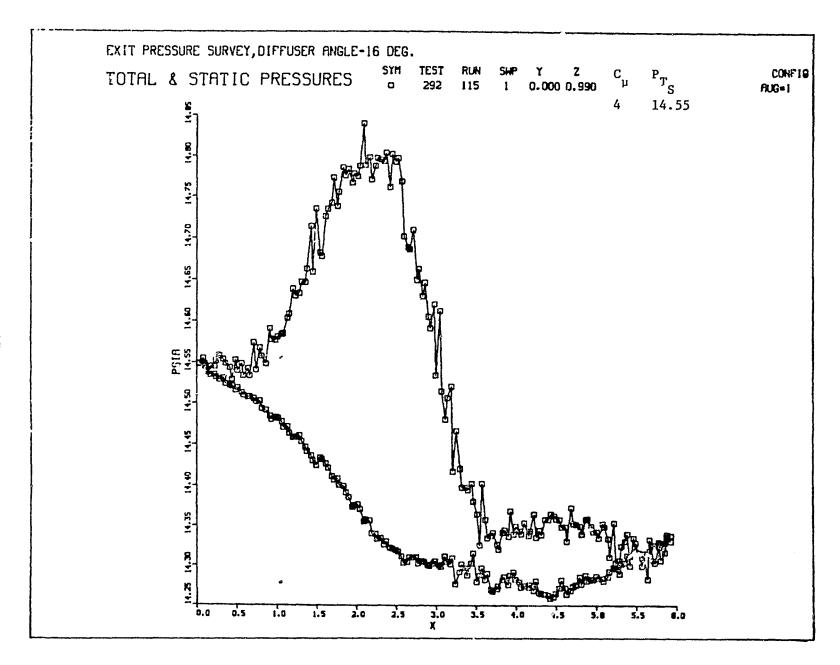


Figure A-4 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

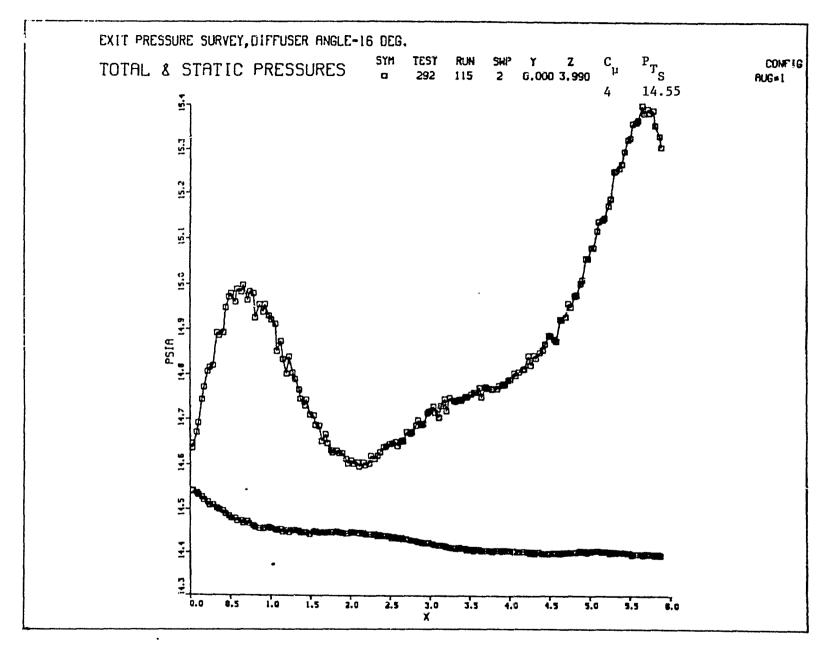


Figure A-4 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

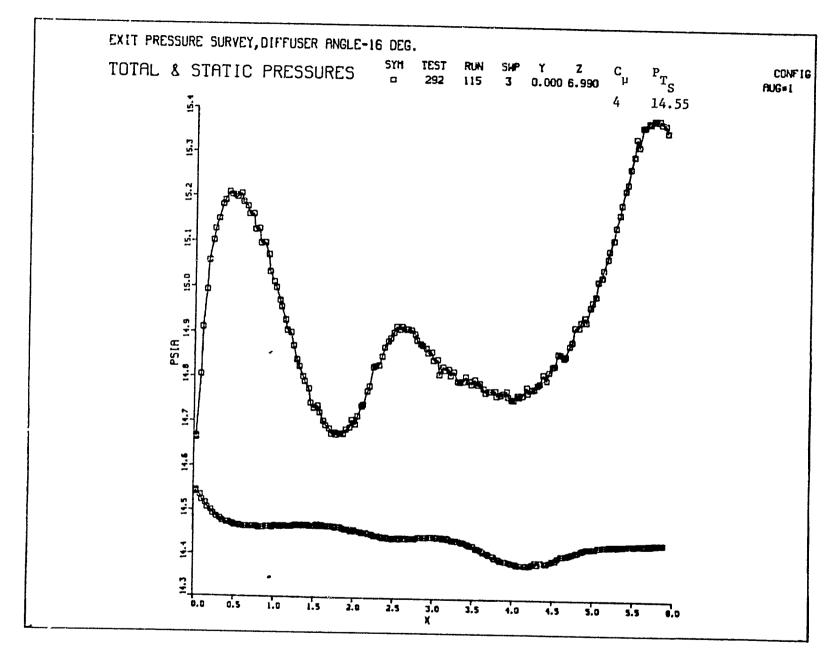


Figure A-4 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

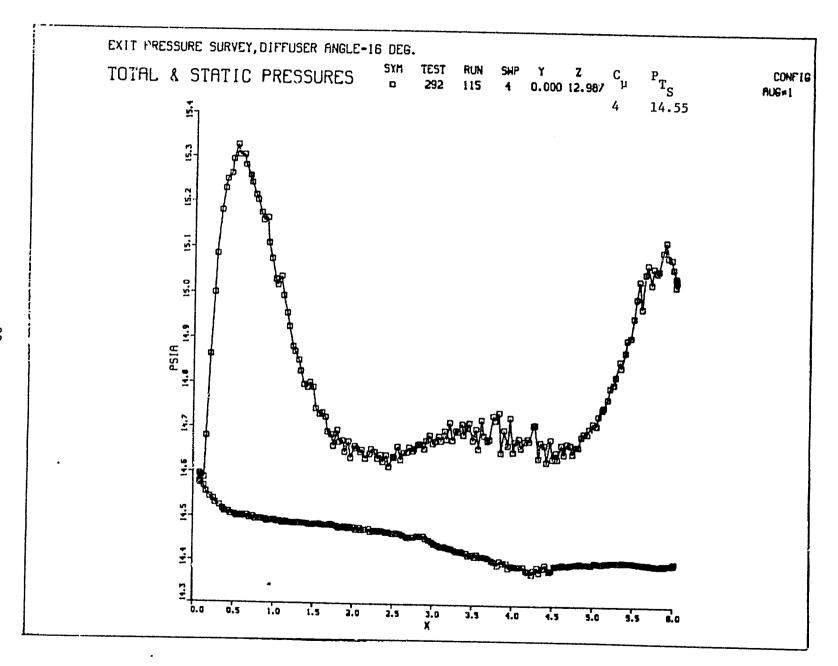


Figure A-4 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff - 16° , θ = 30° , α = 0

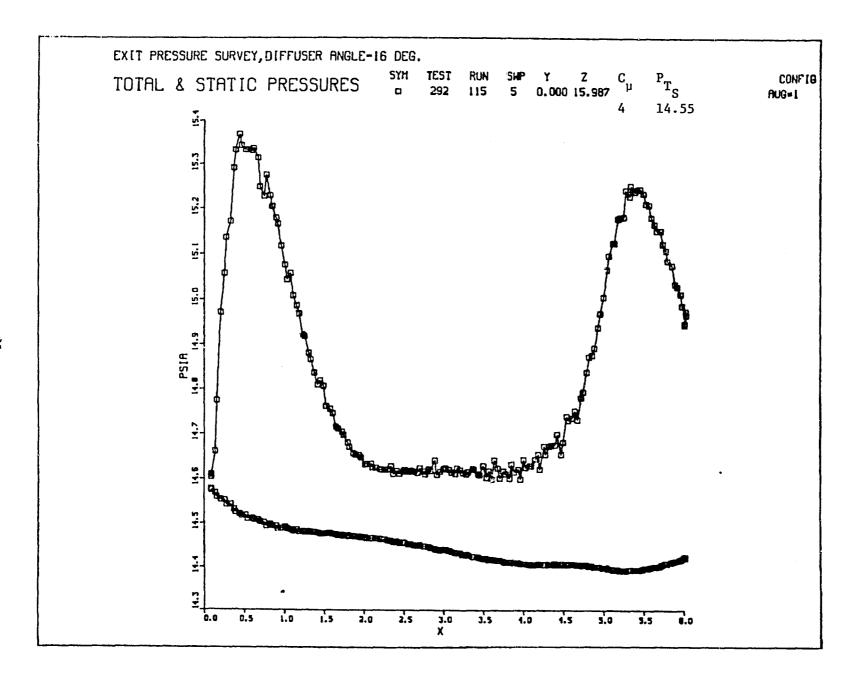


Figure A-4 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

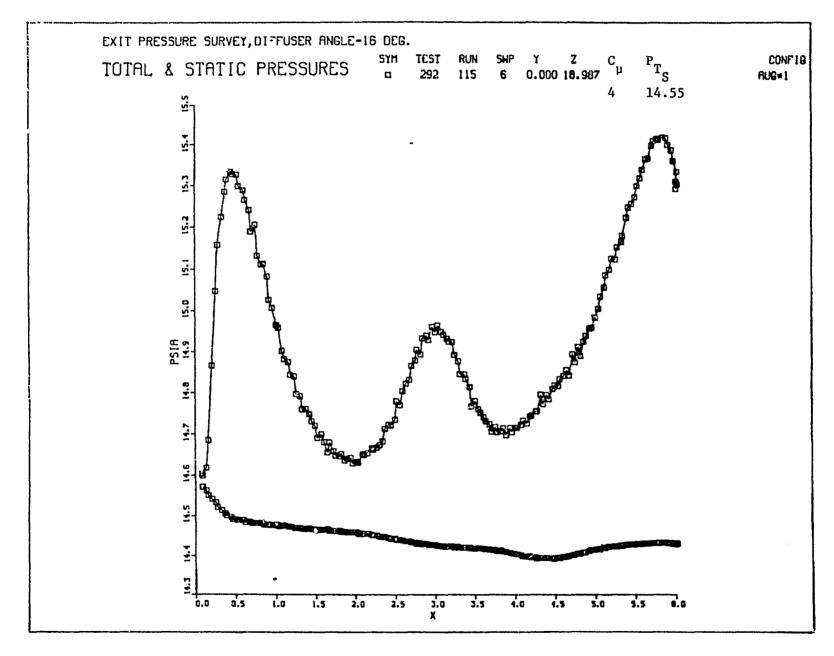


Figure A-4 f. Augmenter Exit Total & Static Pressure, Aut. #1, Diff = 16° , θ = 30° , α = 0

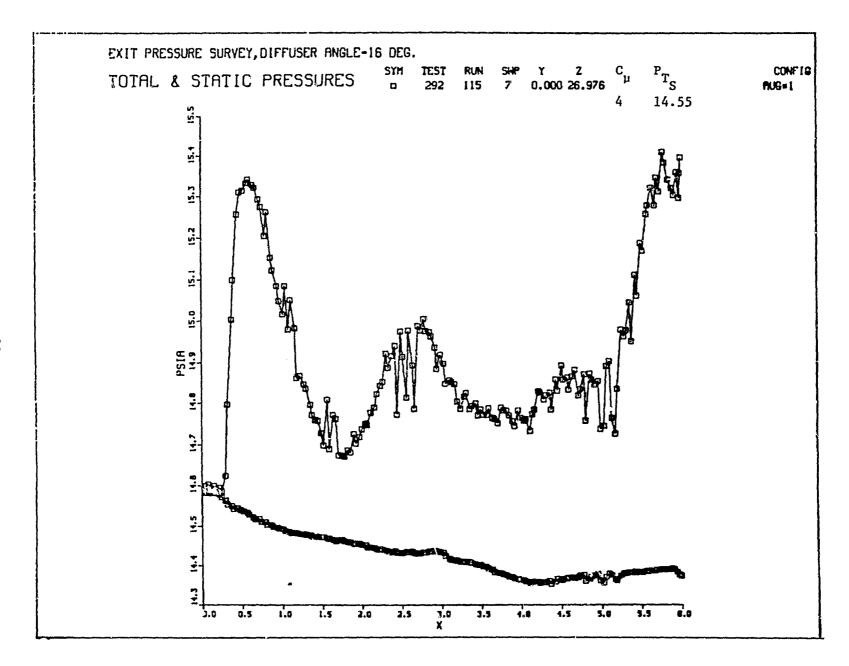


Figure A-4 g. Augmenter Exit Total & Statis Pressure, Aug. #1, Diff - 16° , 9 = 30° , α = 0

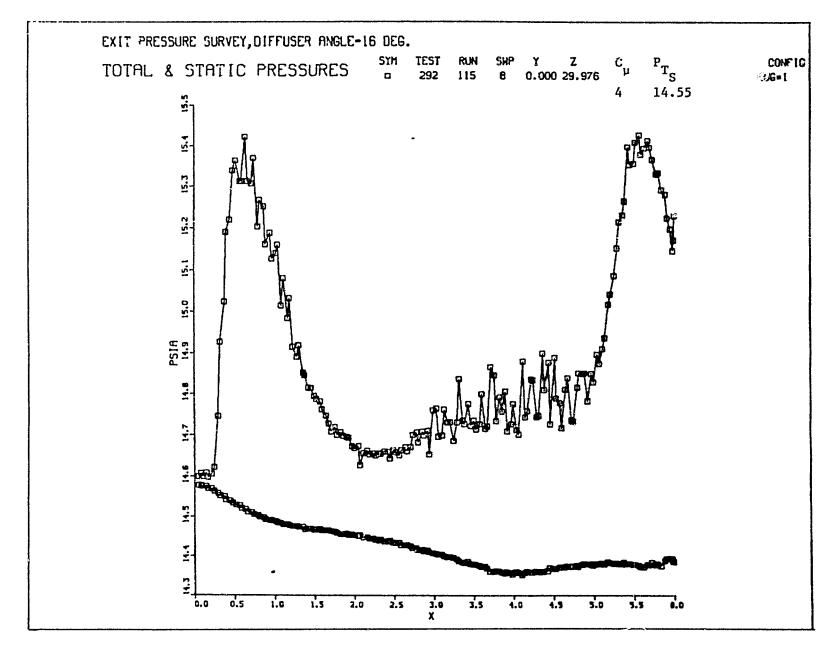


Figure A-4 h. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

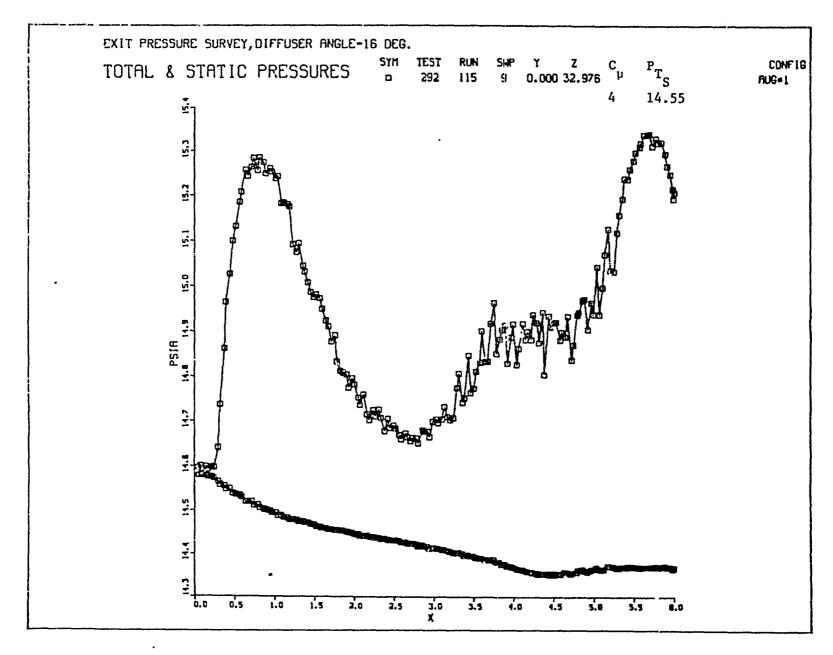


Figure A-4 i. Augmenter Exit Total & Static Pressure, Aug. #1, Diff - 16° , θ = 30° , α = 0

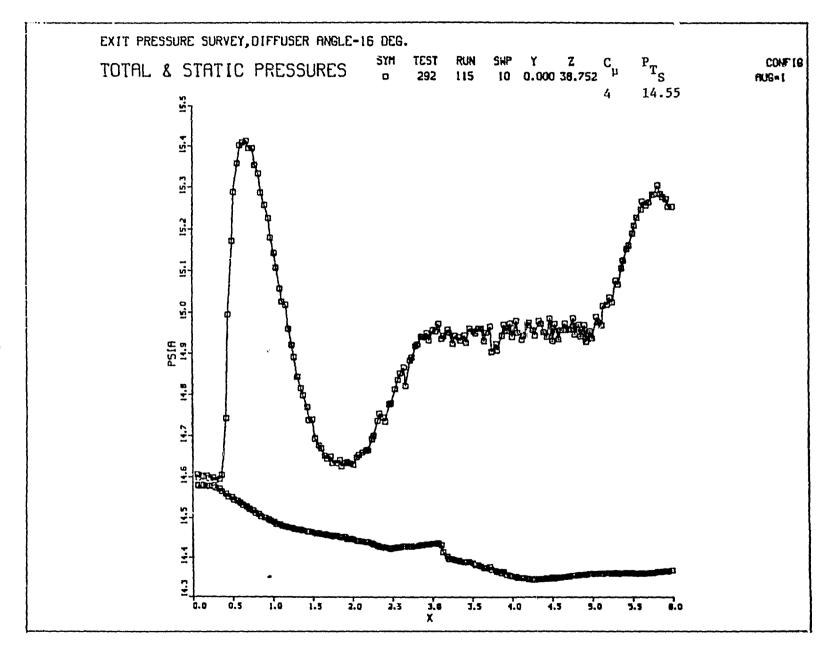


Figure A-4 j. Augmenter Exit Total & Static Pressure, Aug. #1, Diff - 16° , θ = 30° , α = 0

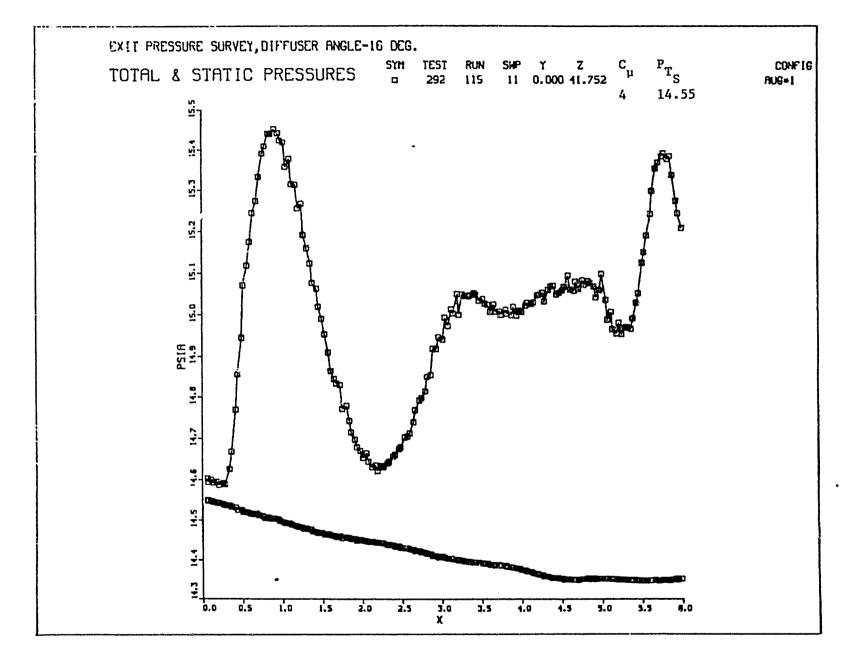


Figure A-4 k. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 160, θ = 300, α = 0

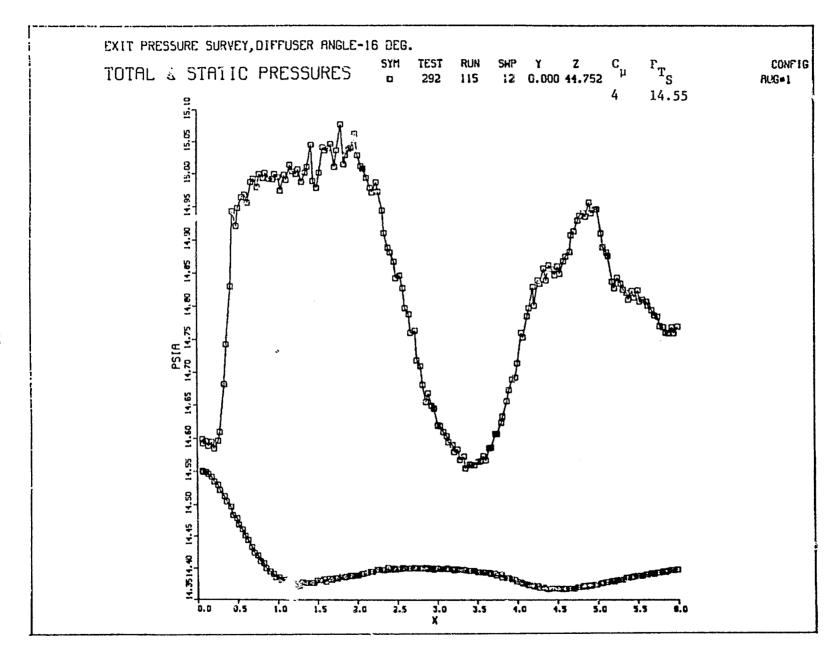


Figure A-4 1. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

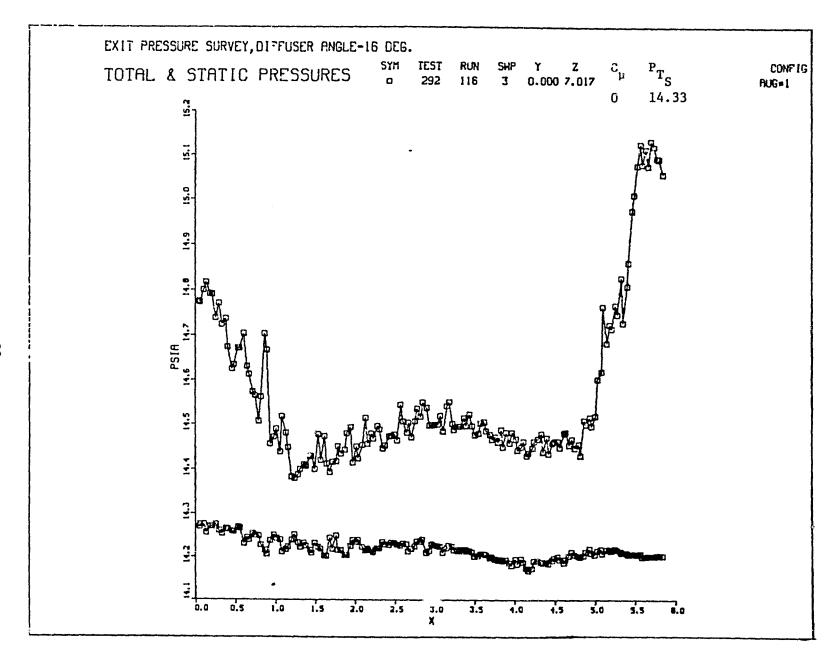


Figure A-5 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

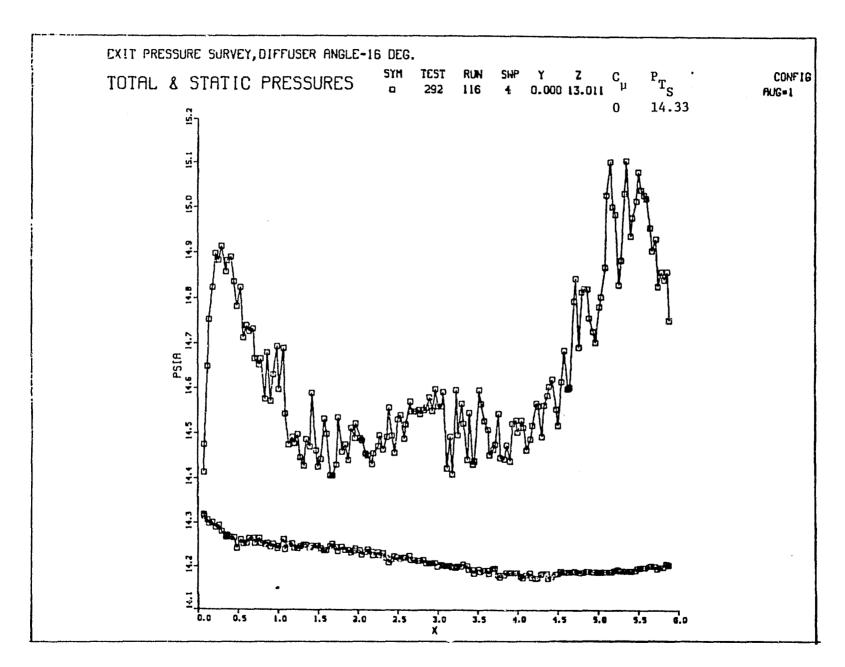


Figure A-5 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

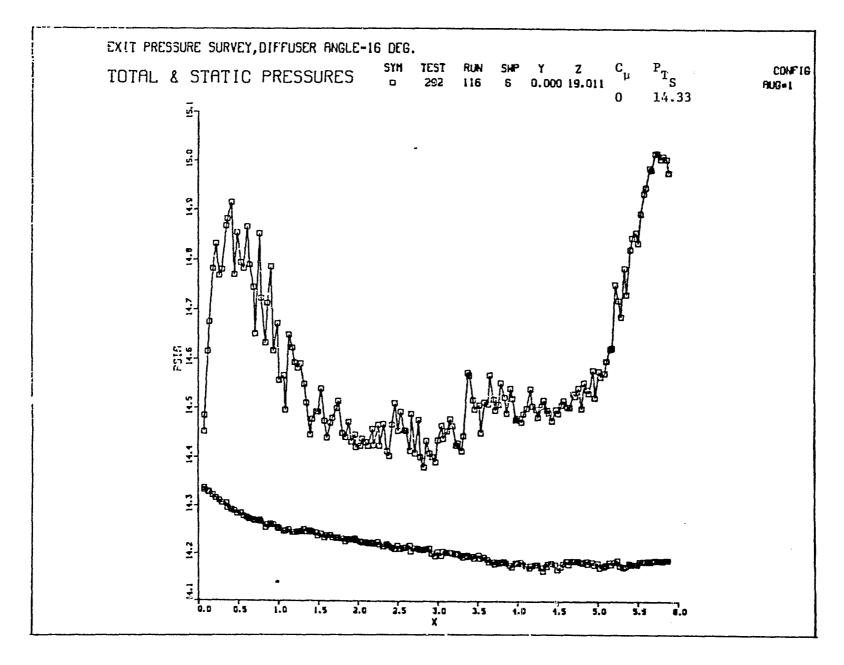


Figure A-5 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

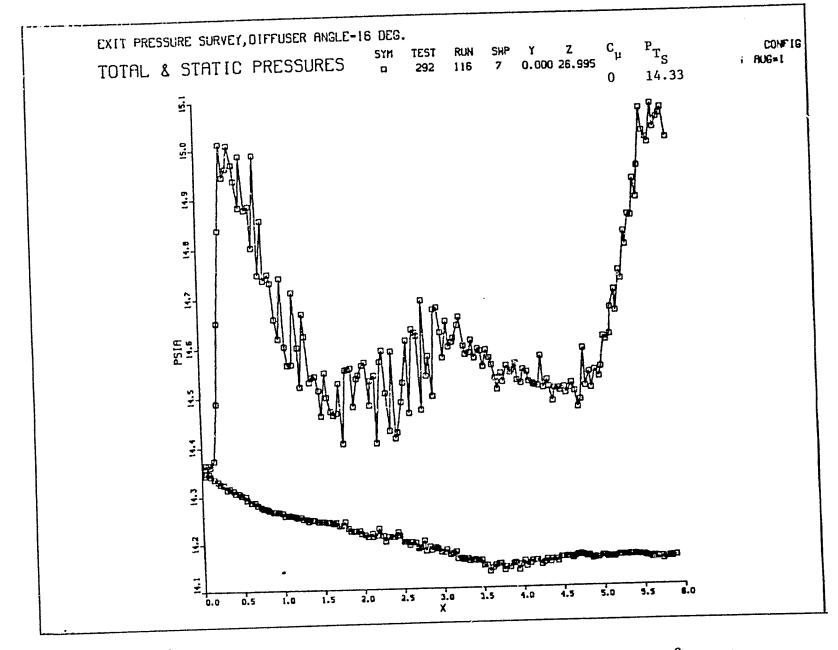


Figure A-5 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , $\theta = 30^{\circ}$, $\alpha = 0$

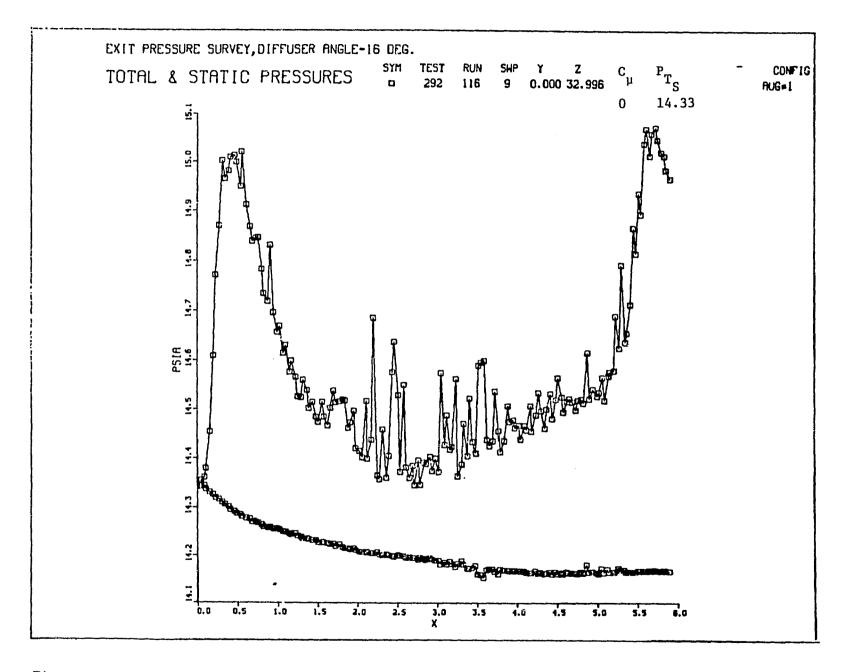


Figure A-5 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

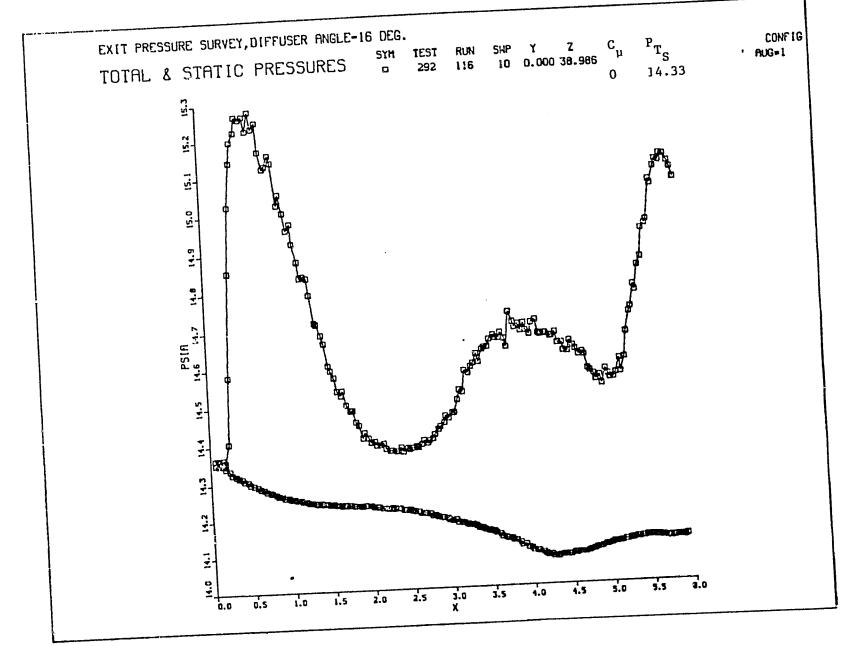


Figure A-5 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

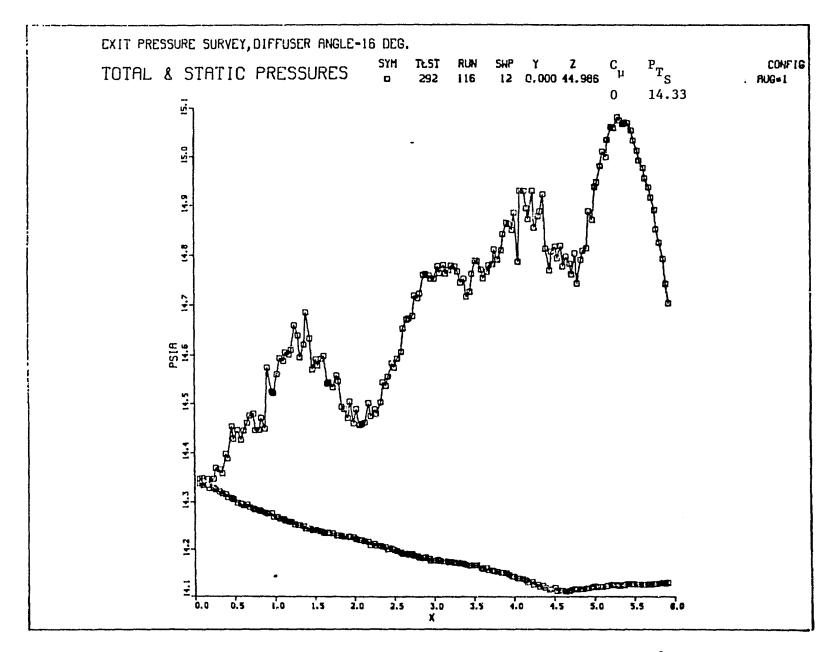


Figure A-5 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 30° , α = 0

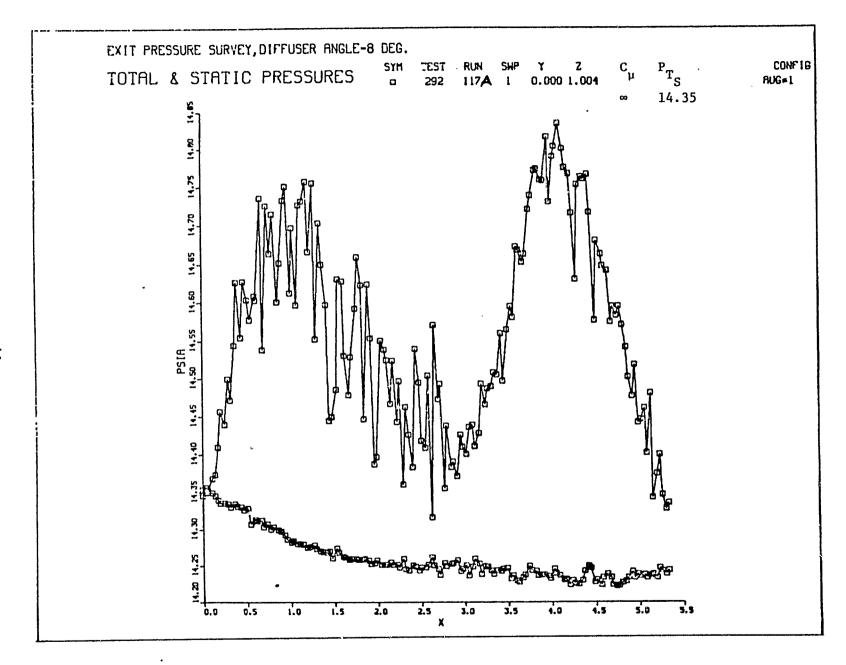


Figure A-6 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

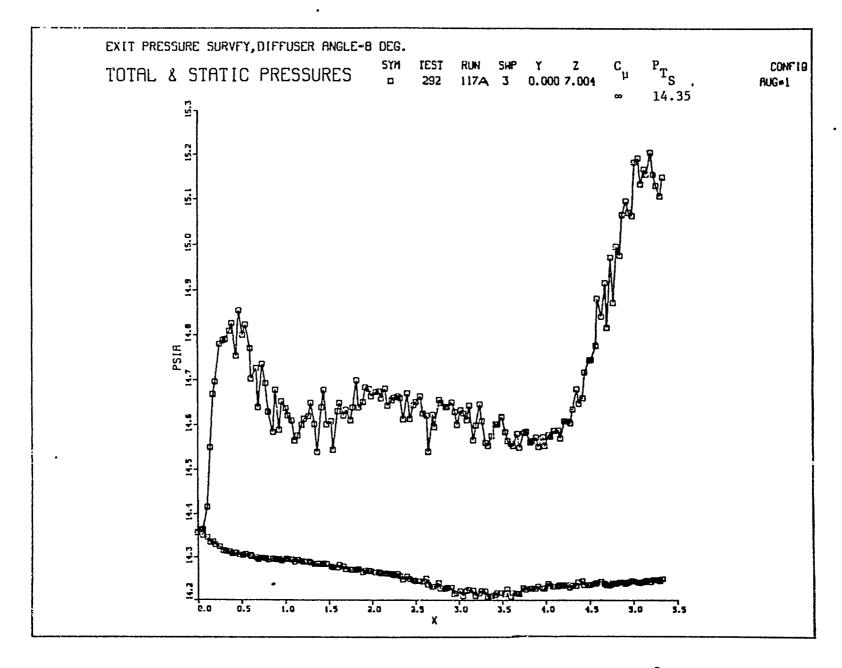


Figure A-6 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

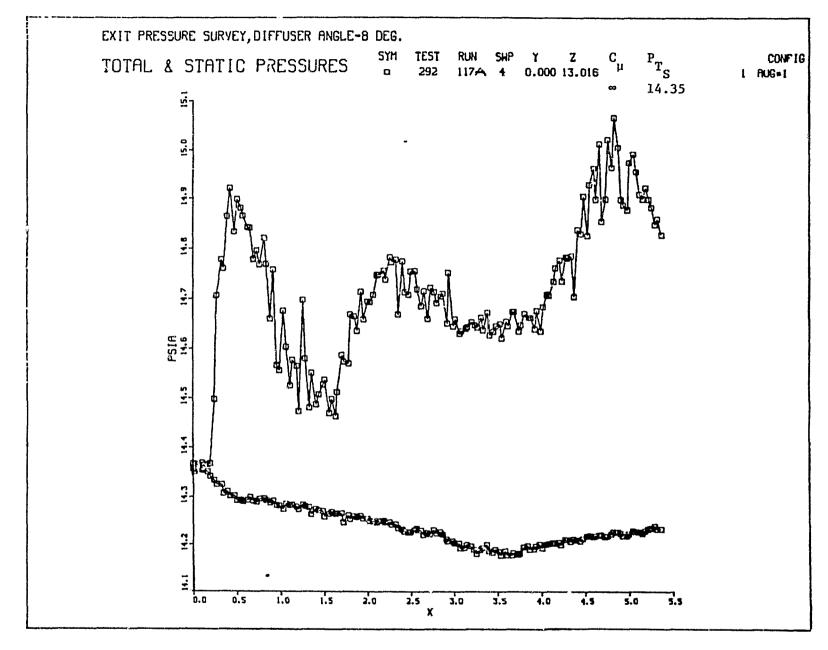


Figure A-6 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8°, θ = 40°, α = 0

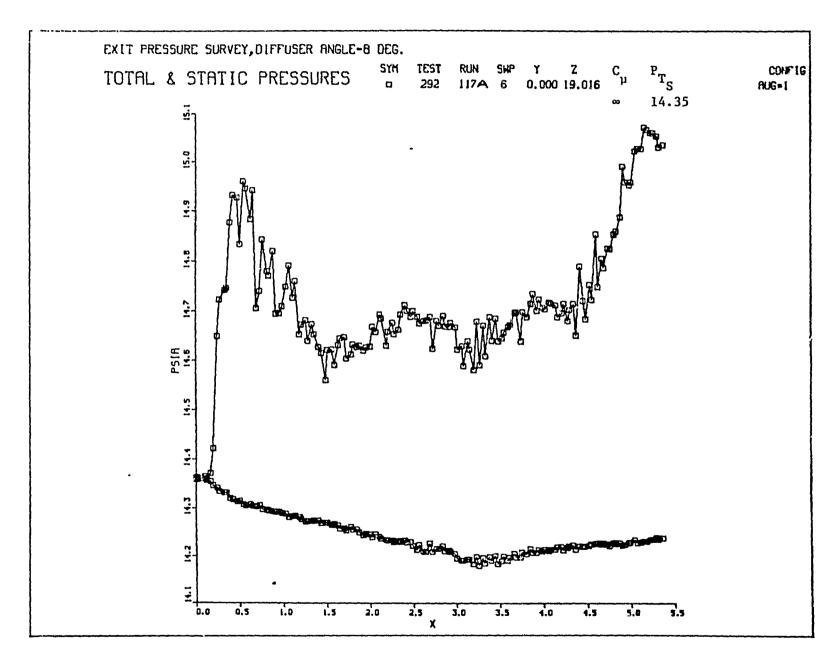


Figure A-6 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

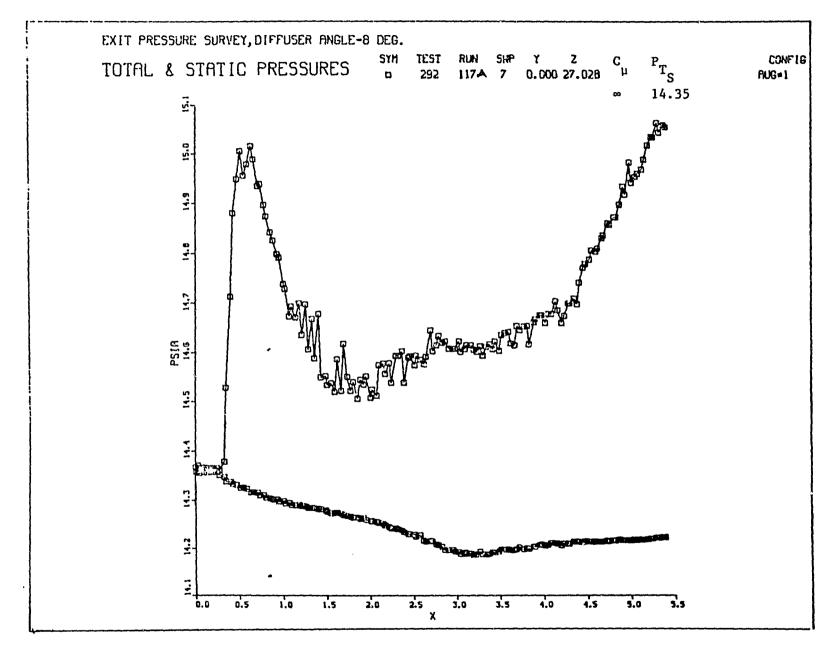


Figure A-6 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , Q = 40° , α = 0

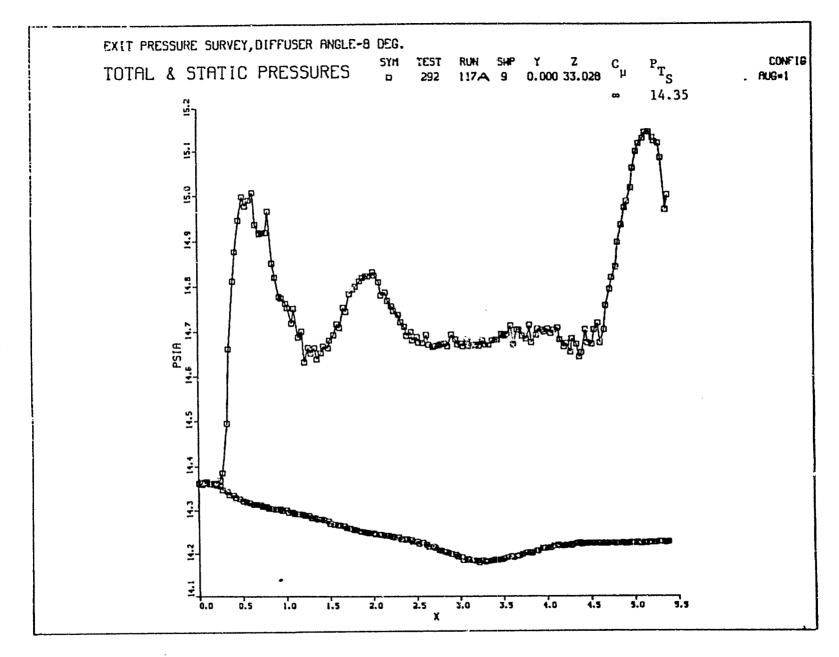


Figure A-6 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

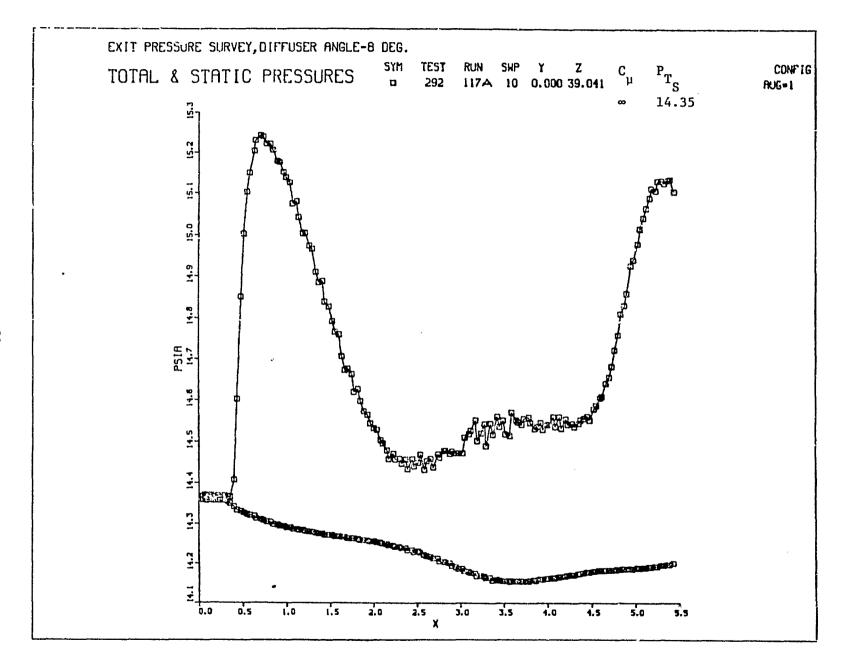


Figure A-6 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

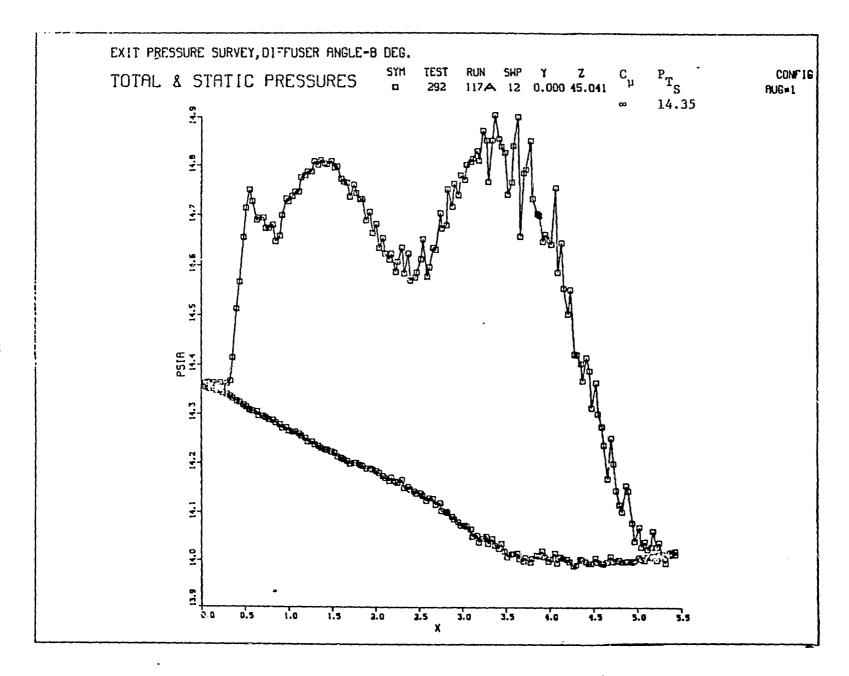


Figure A-6 h. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , $\theta = 40^{\circ}$, $\alpha = 0$

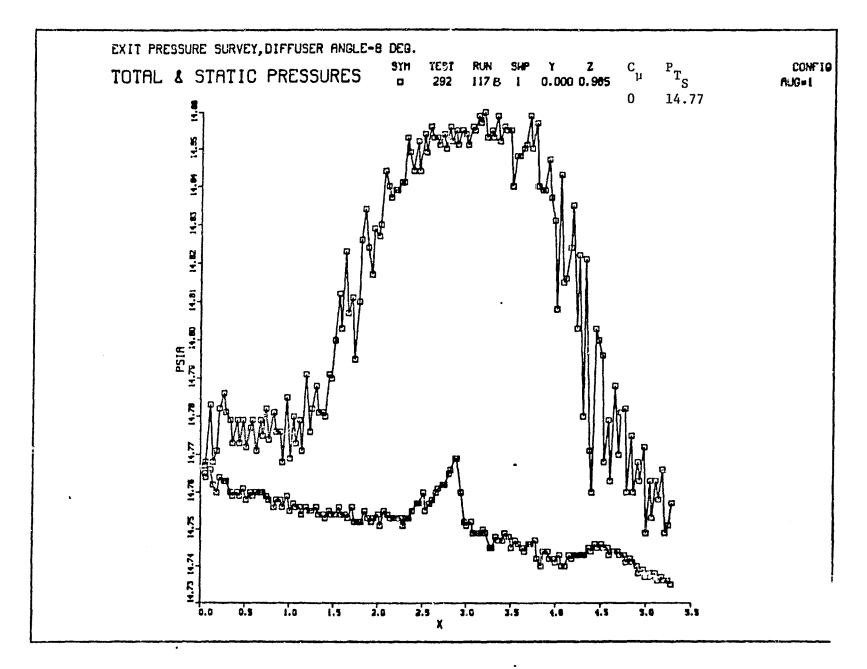


Figure A-7 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

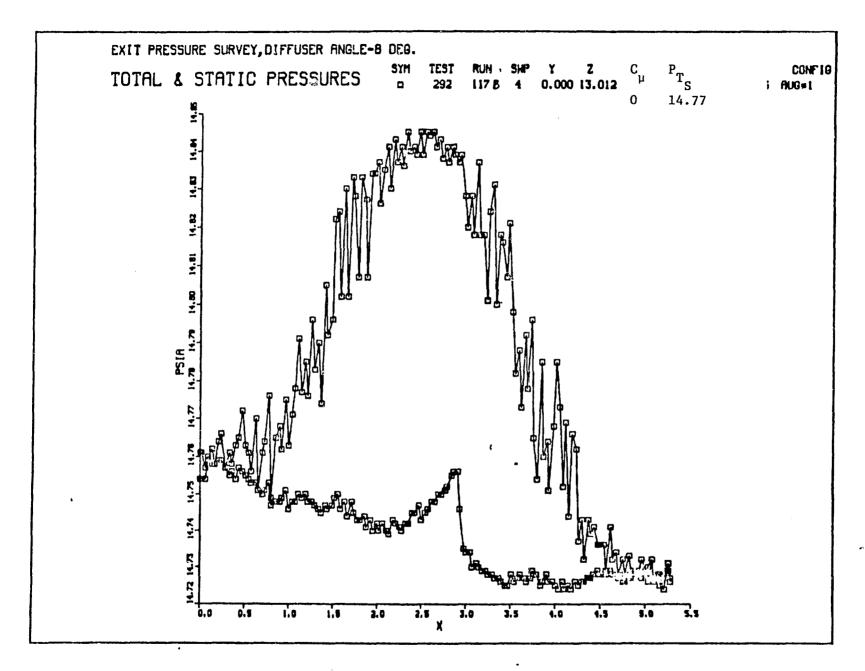


Figure A-7 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

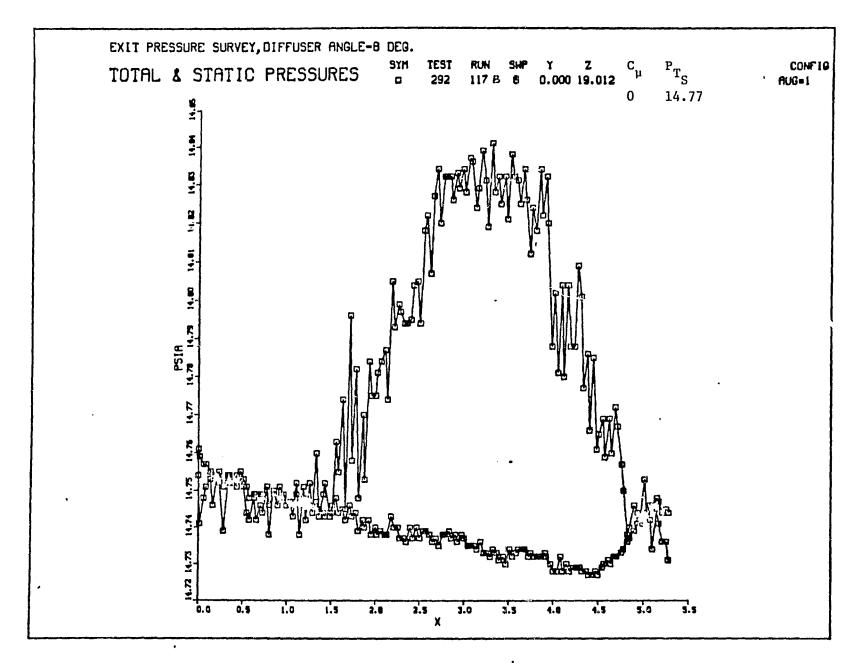


Figure A-7 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

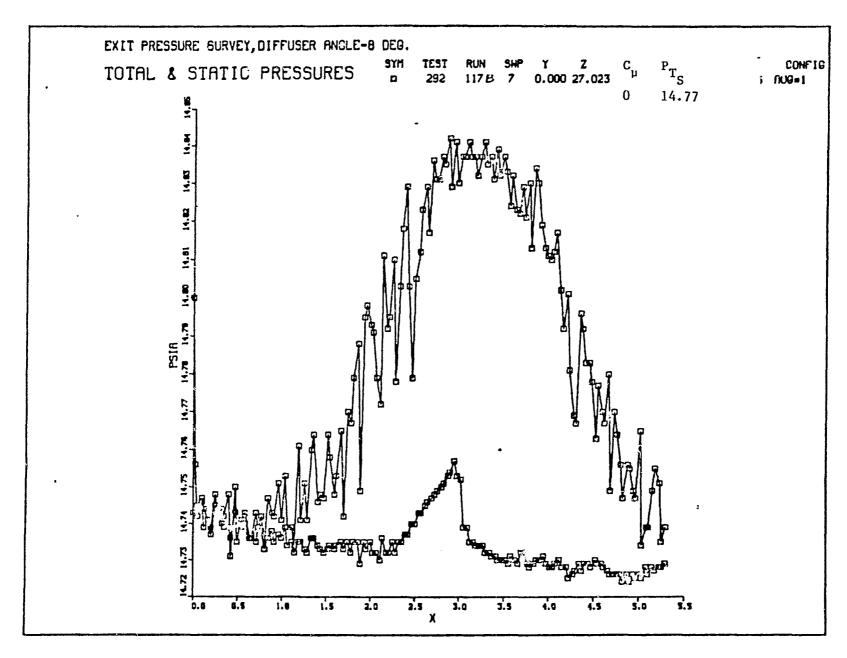


Figure A-7 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

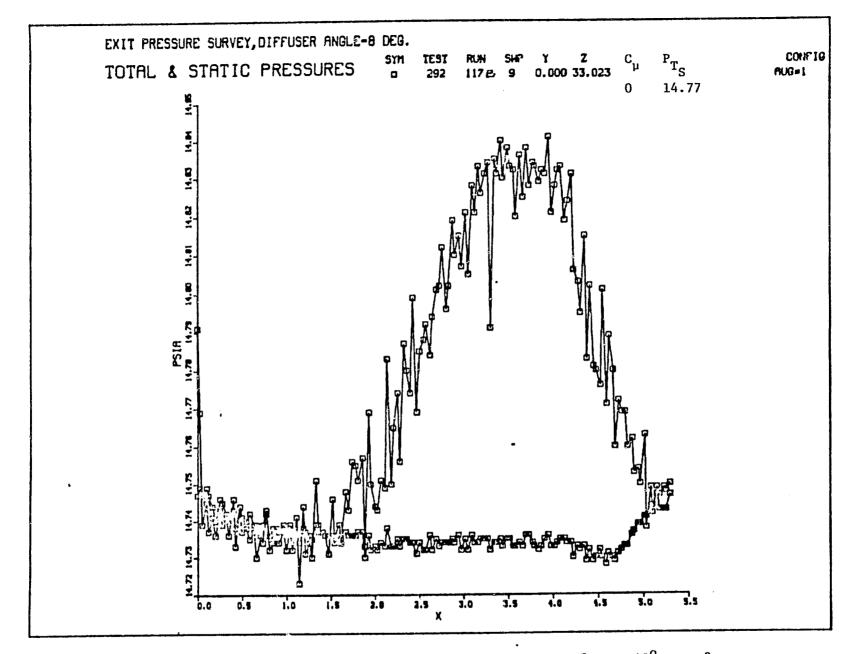


Figure A-7 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , $\theta = 40^{\circ}$, $\alpha = 0$

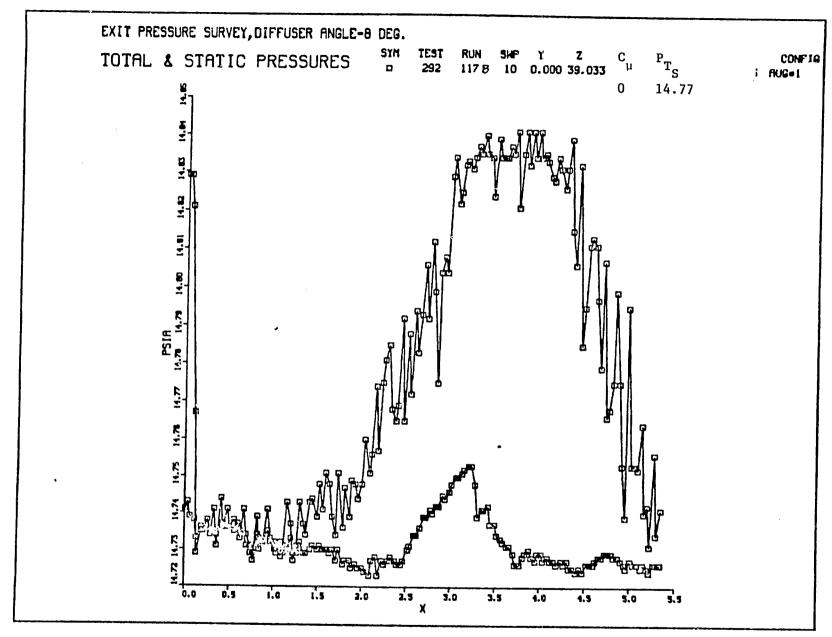


Figure A-7 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

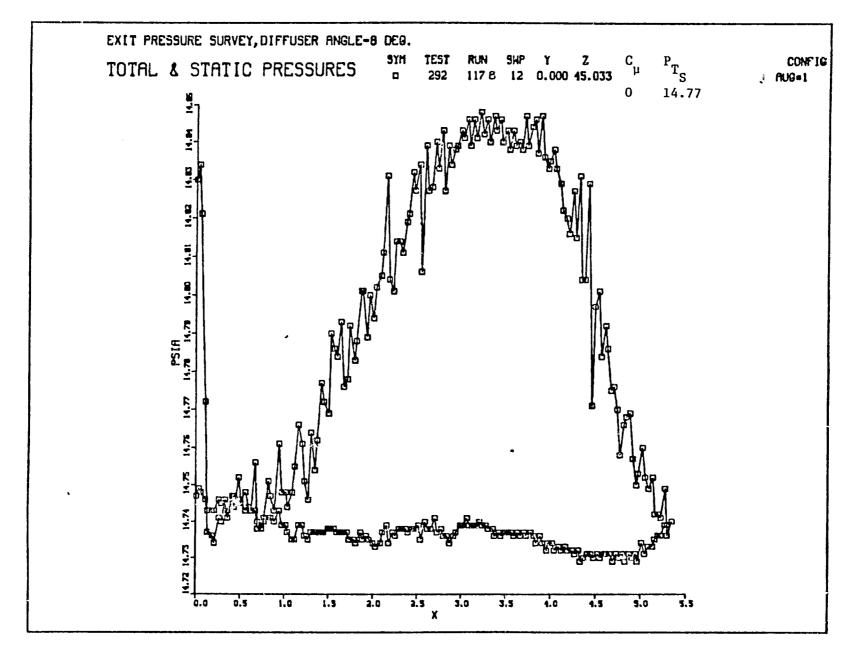


Figure A-7 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

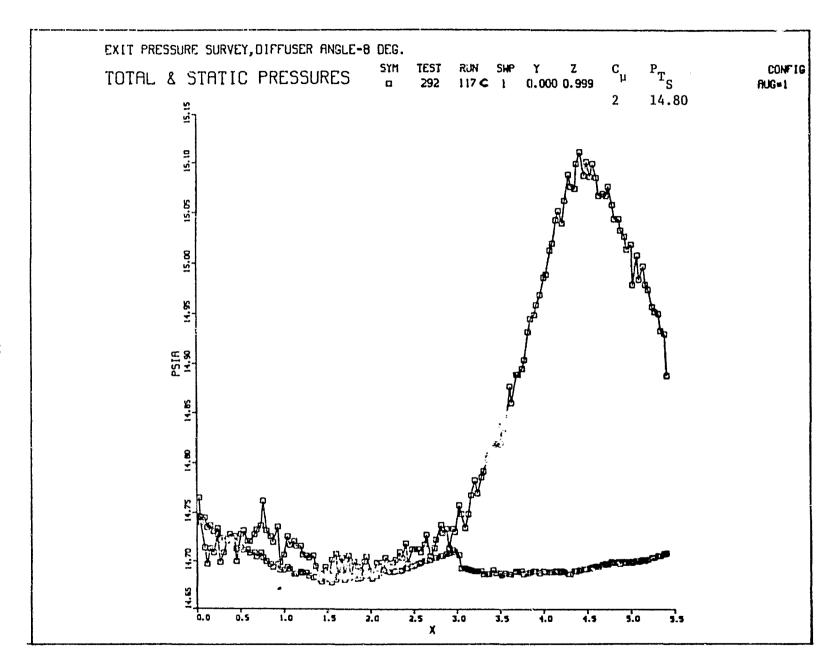


Figure A-8 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

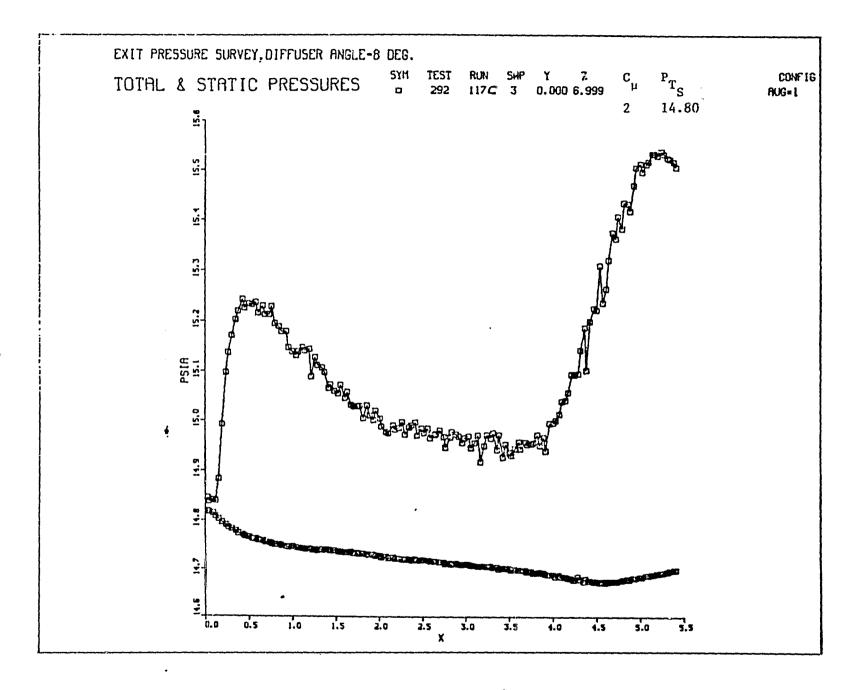


Figure A-8 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

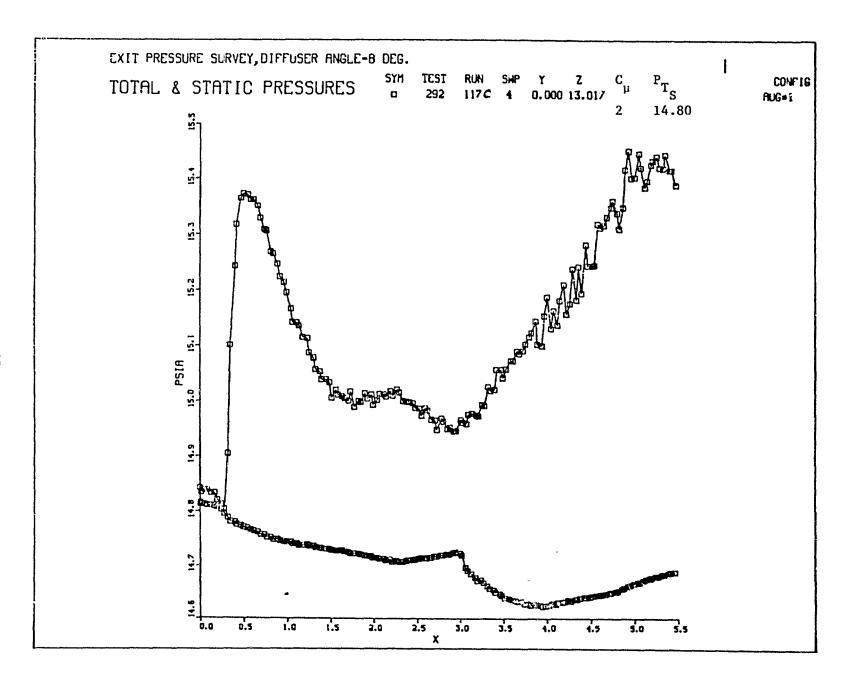


Figure A-8 c. Augmenter Exit Total & Static Pressure, Aug. #1, D1ff = 80, θ = 400, α = 0

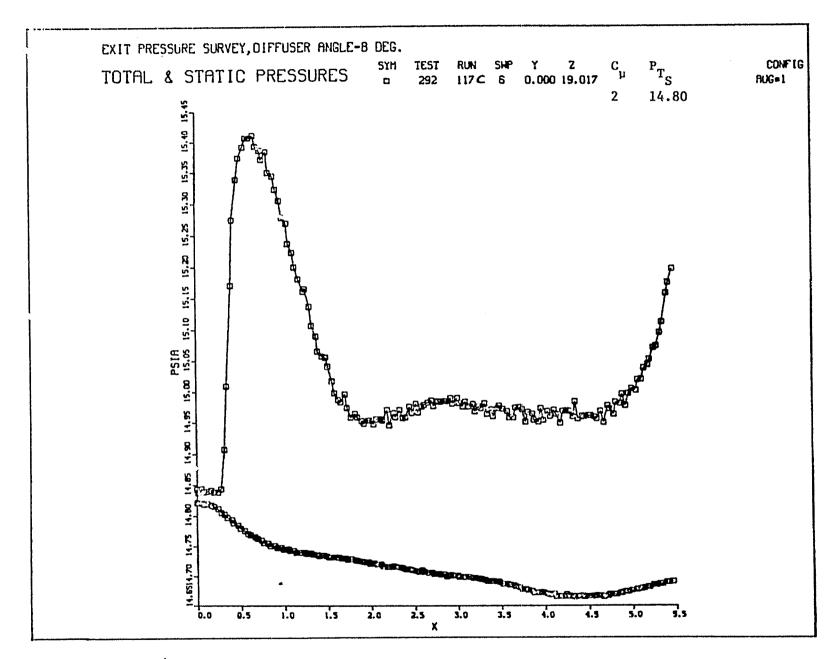


Figure A-8 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , $9 = 40^{\circ}$, $\alpha = 0$

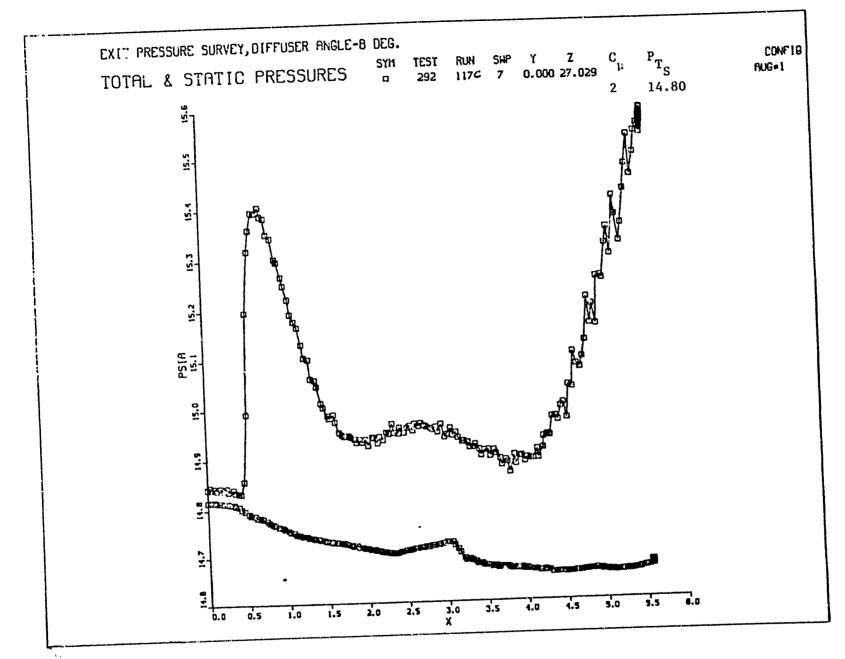


Figure A-8 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

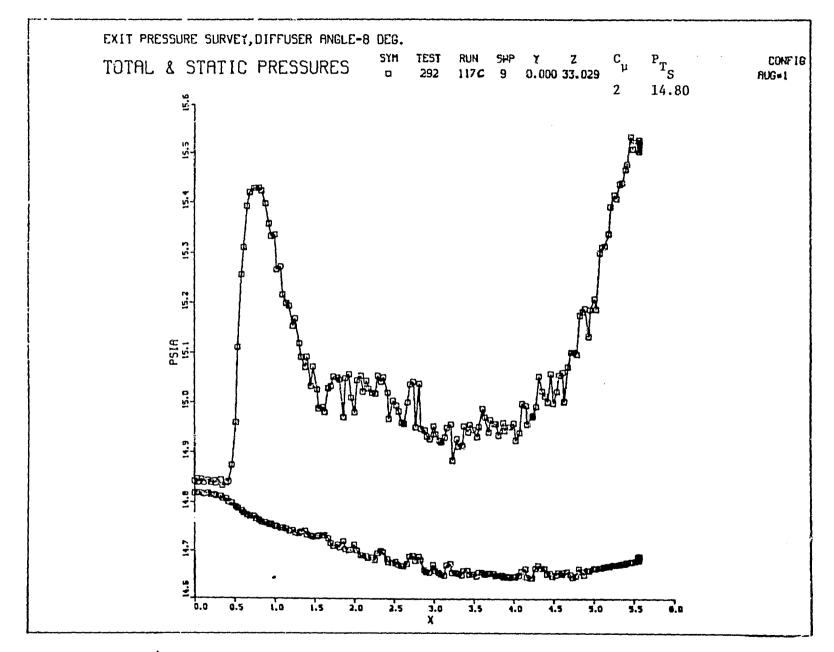


Figure A-8 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

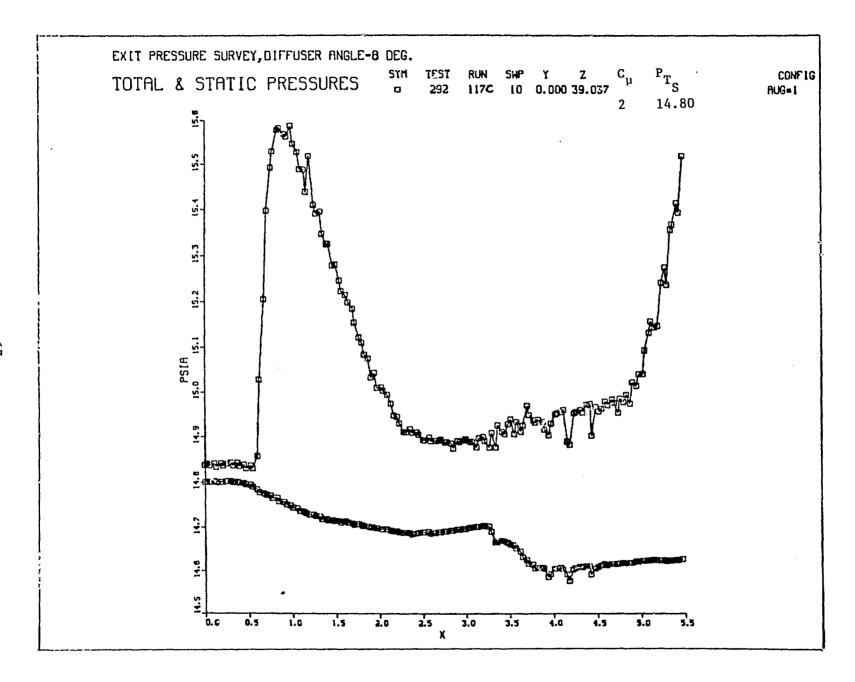


Figure A-8 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , $\theta = 40^{\circ}$, $\alpha = 0$

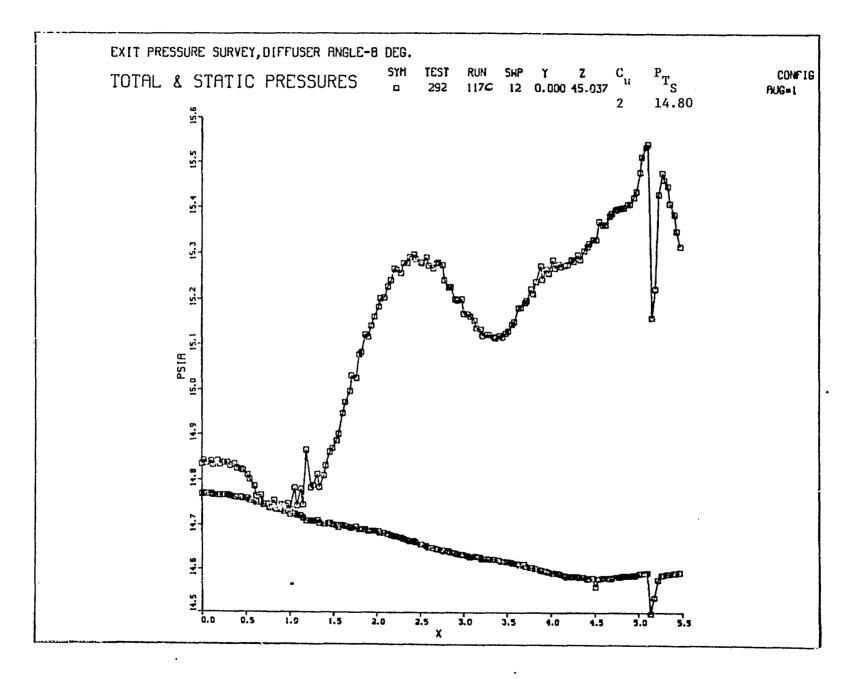


Figure A-8 h. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , $\theta = 40^{\circ}$, $\alpha = 0$

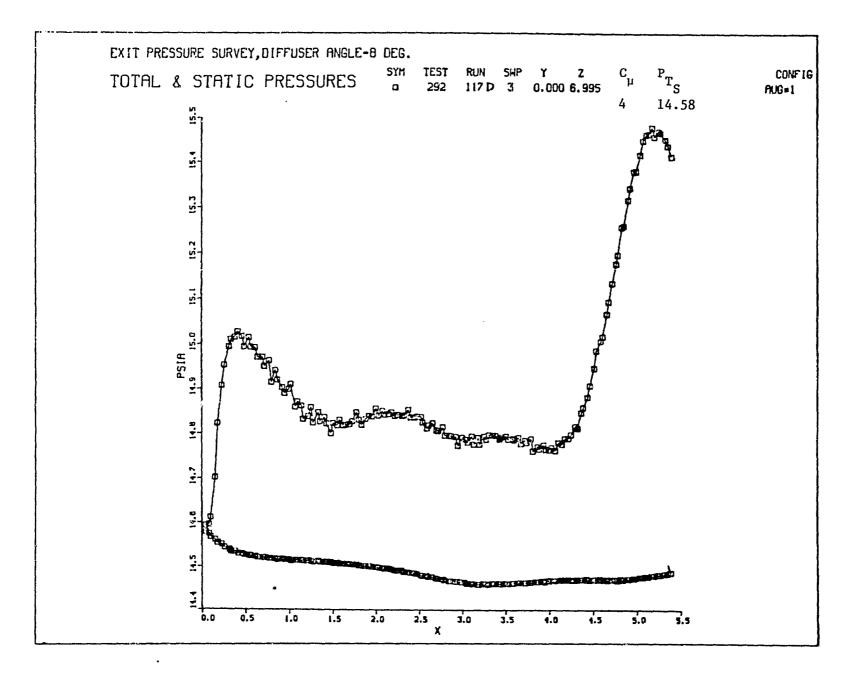


Figure A-9 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

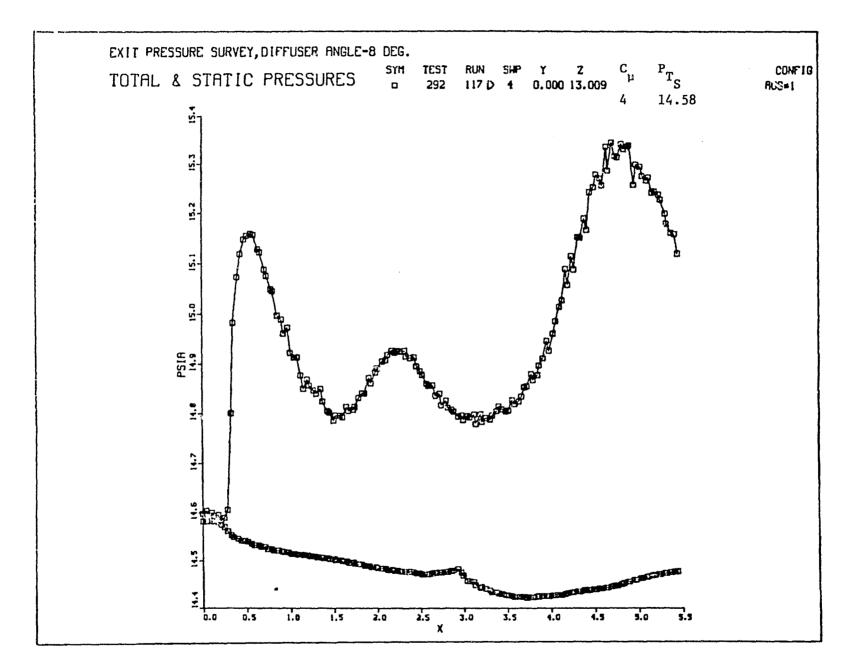


Figure A-9 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8^{9} , θ = 40^{9} , α = 0

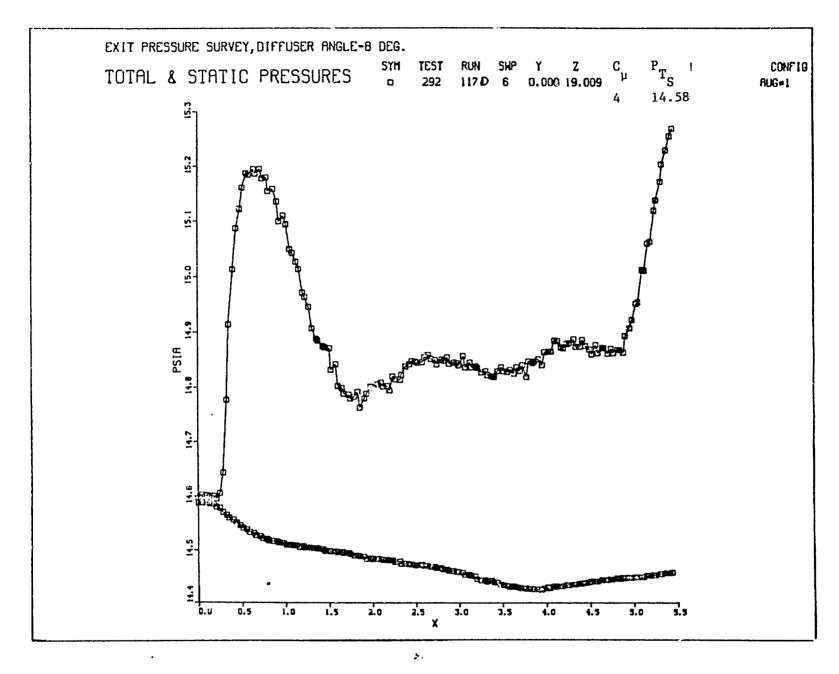


Figure A-9 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

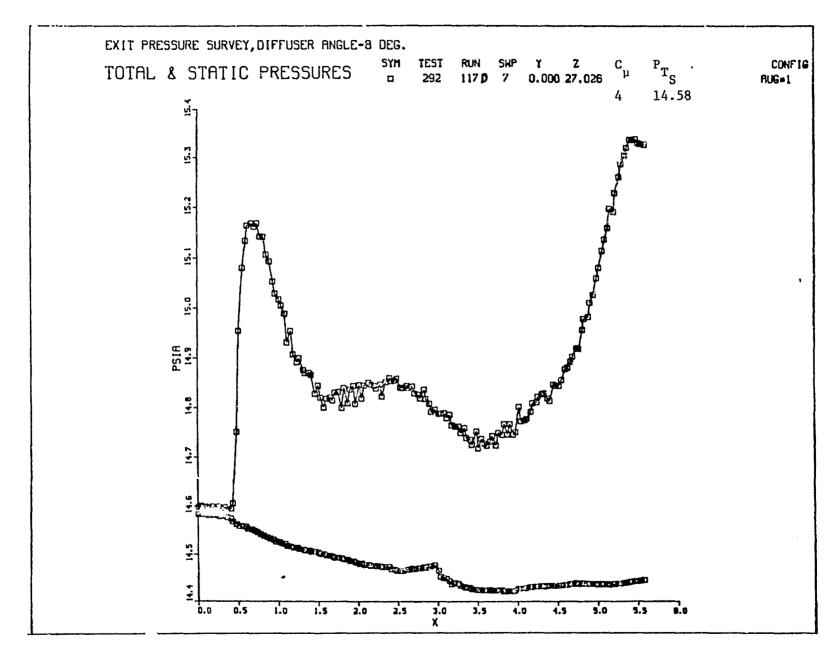


Figure A-9 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

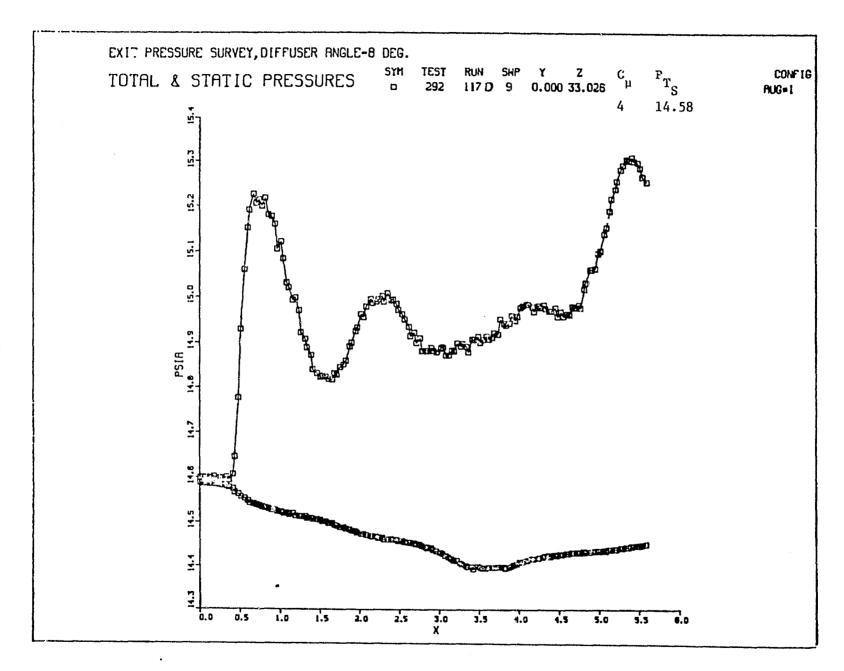


Figure A-9 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , $\theta = 40^{\circ}$, $\alpha = 0$

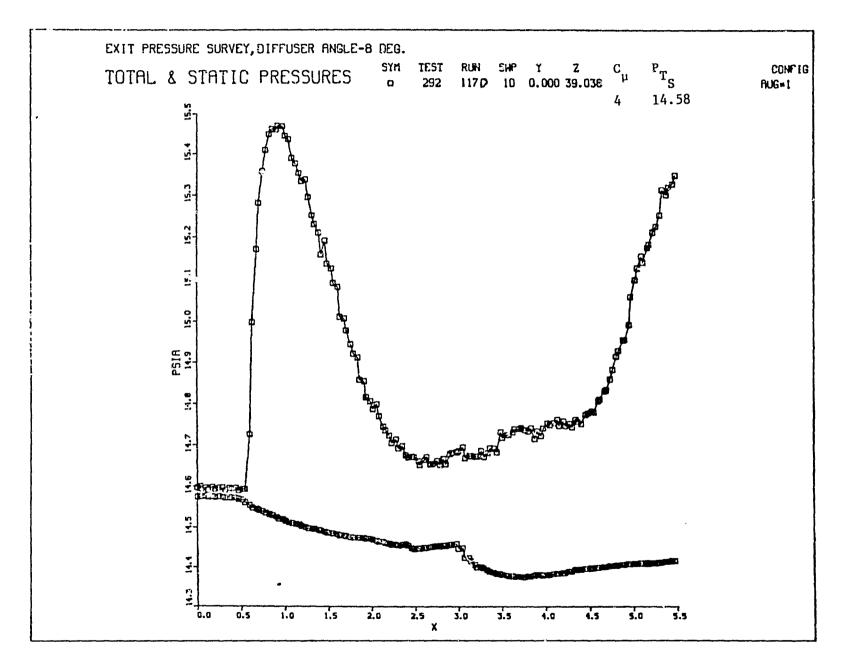


Figure A-9 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

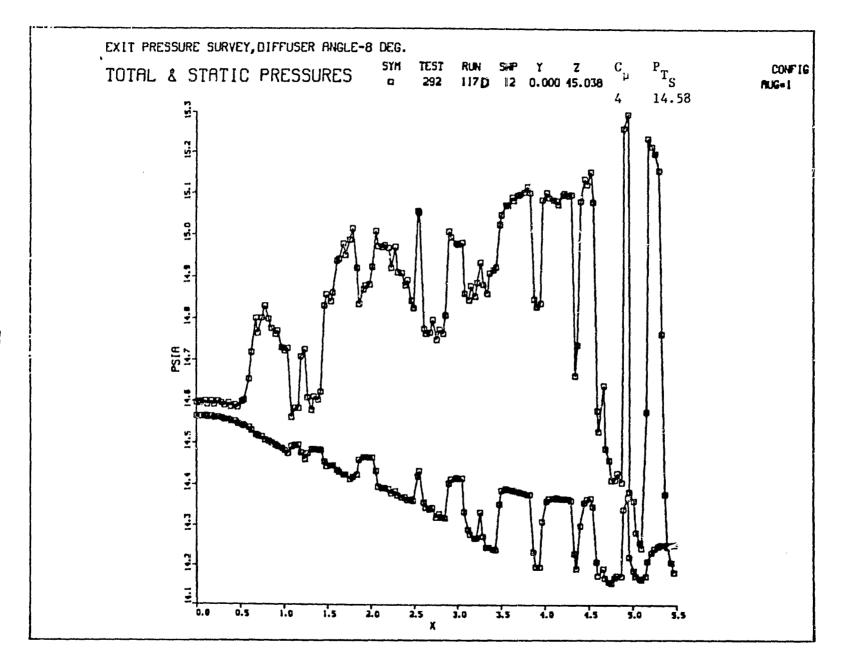


Figure A-9 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 8° , θ = 40° , α = 0

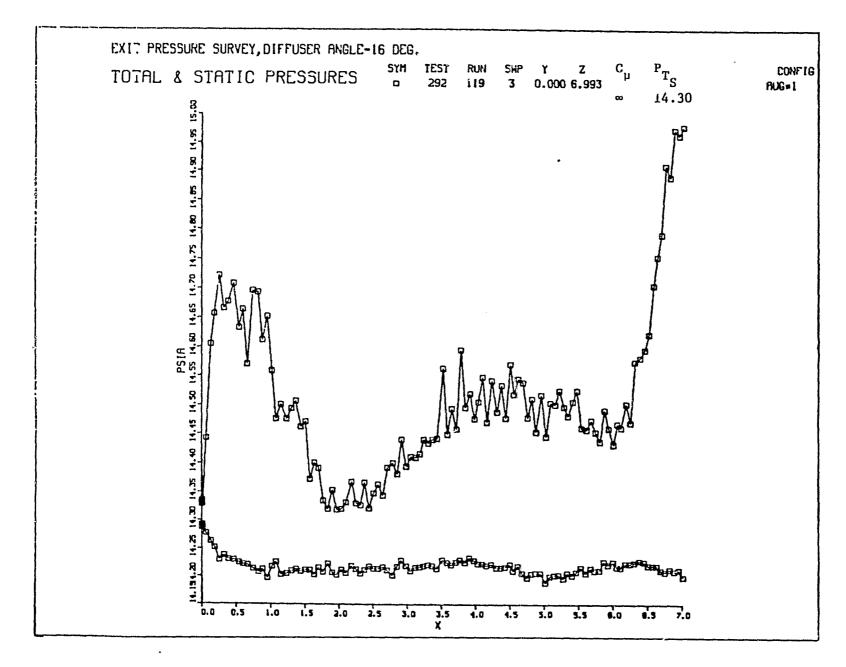


Figure A-10 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , 9 = 40° , α = 0

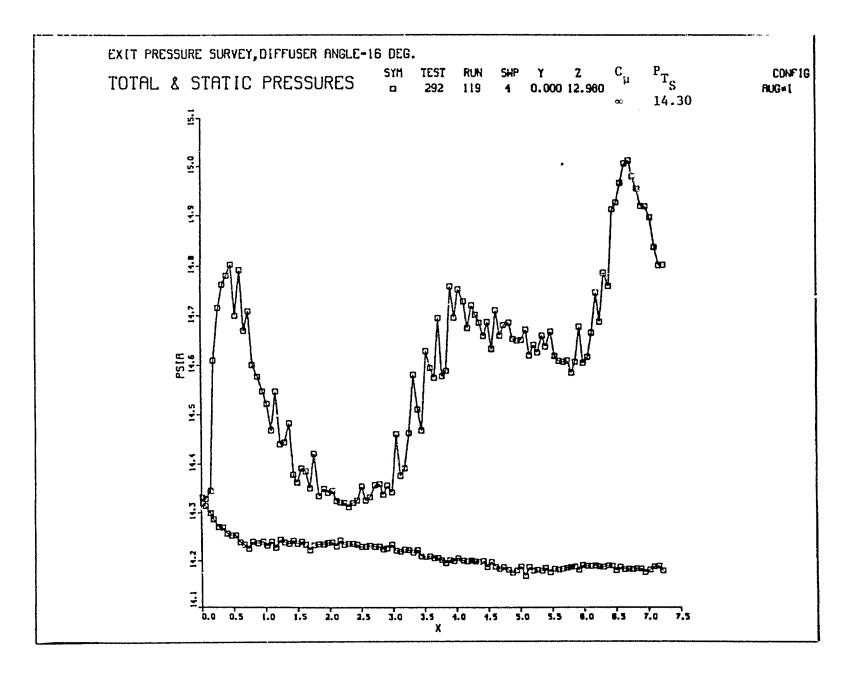


Figure A-10 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

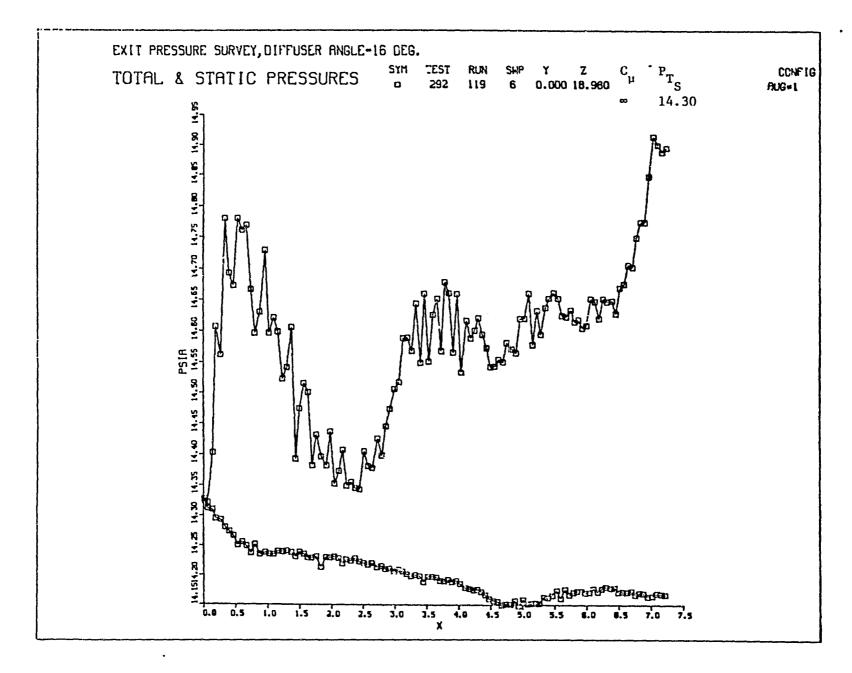


Figure A-10 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

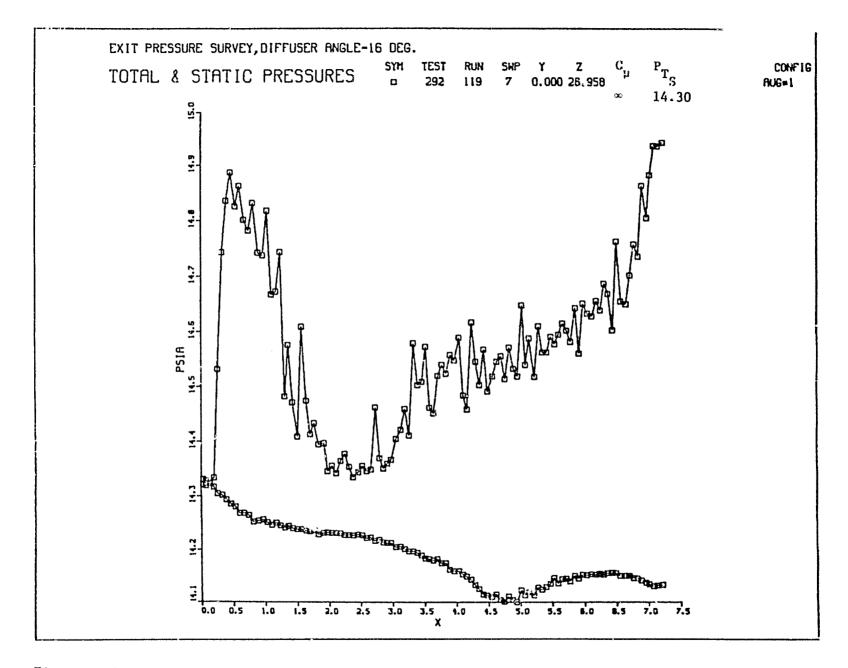


Figure A-10 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

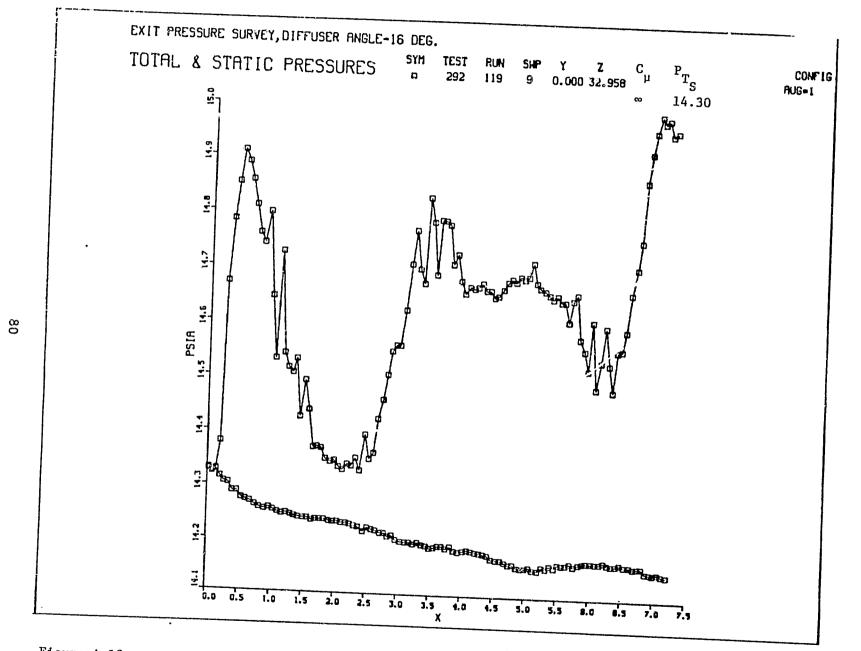


Figure A-10 ϵ . Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

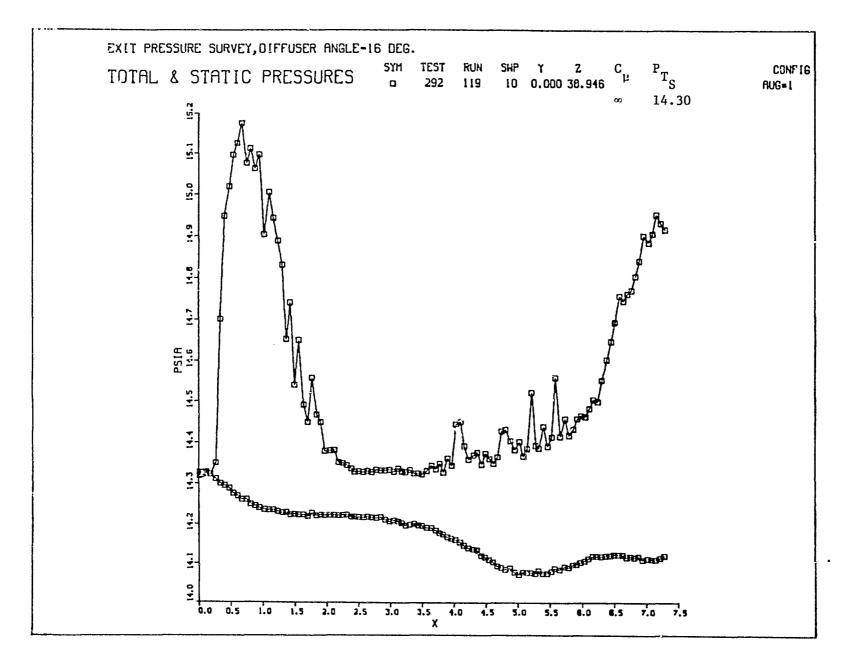


Figure A-10 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

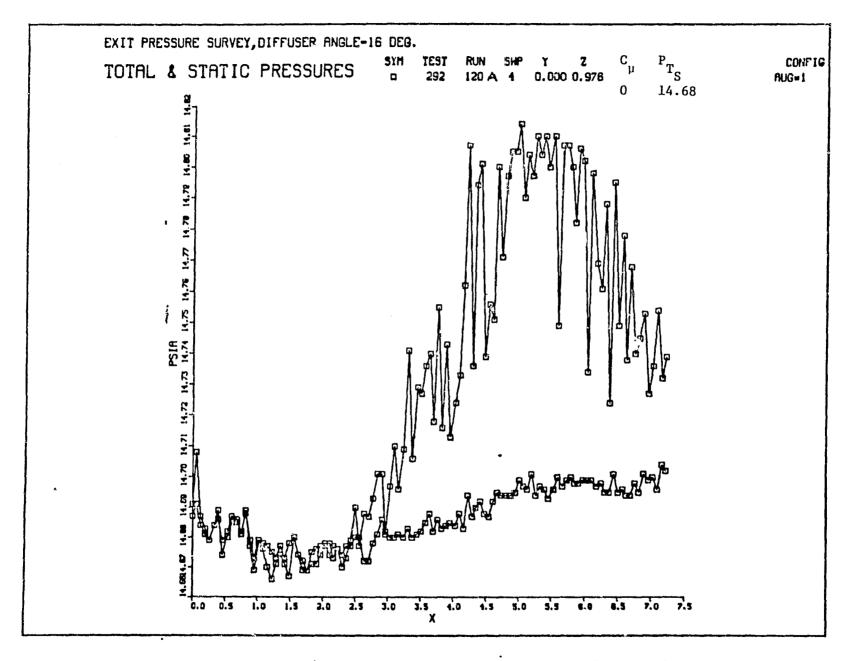


Figure A-11 a. Augmenter Fxit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

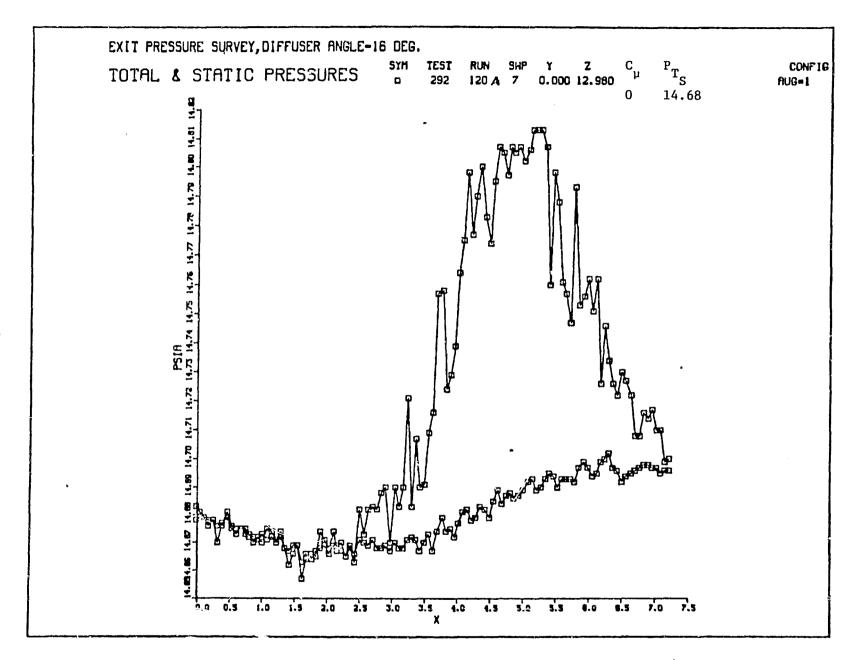


Figure A-11 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

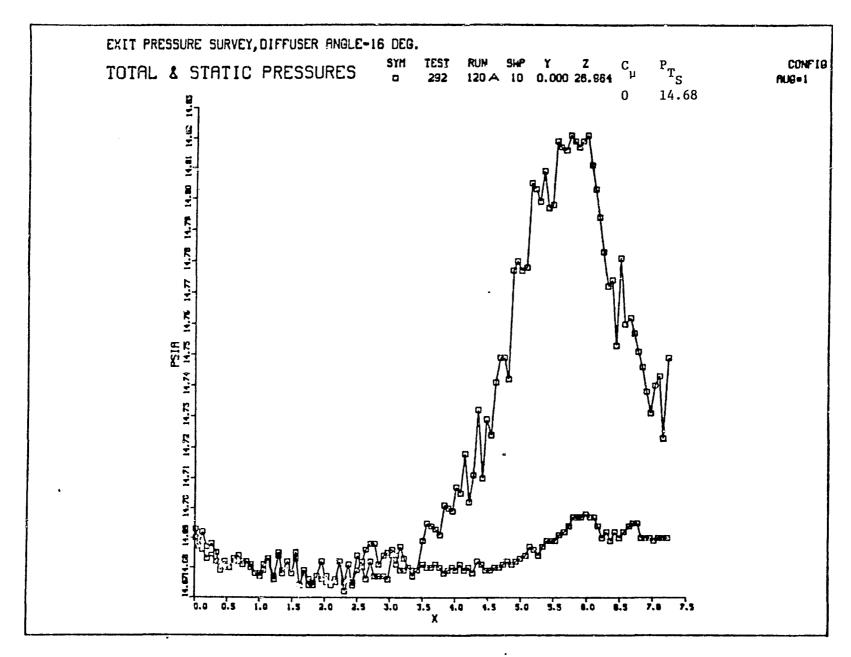


Figure A-11 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

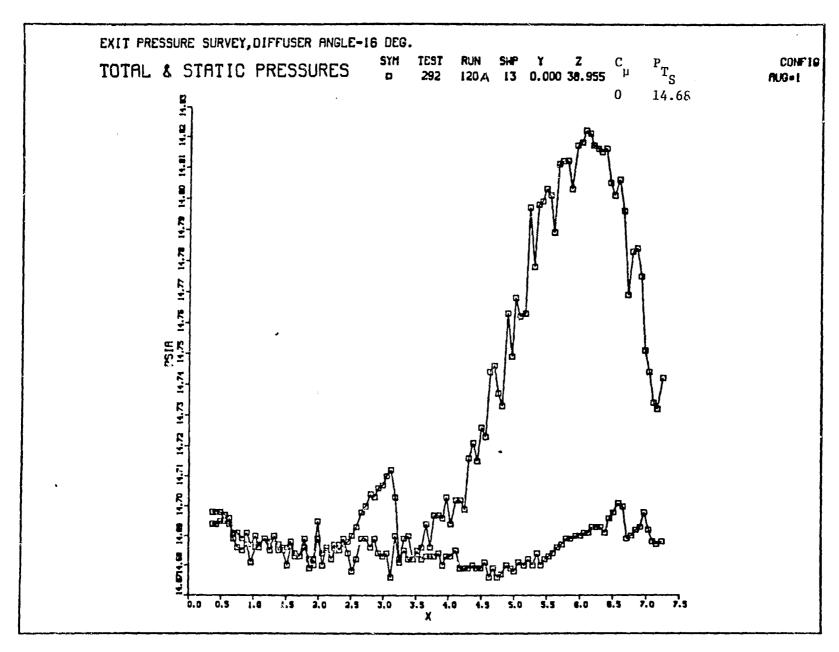


Figure A-11 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

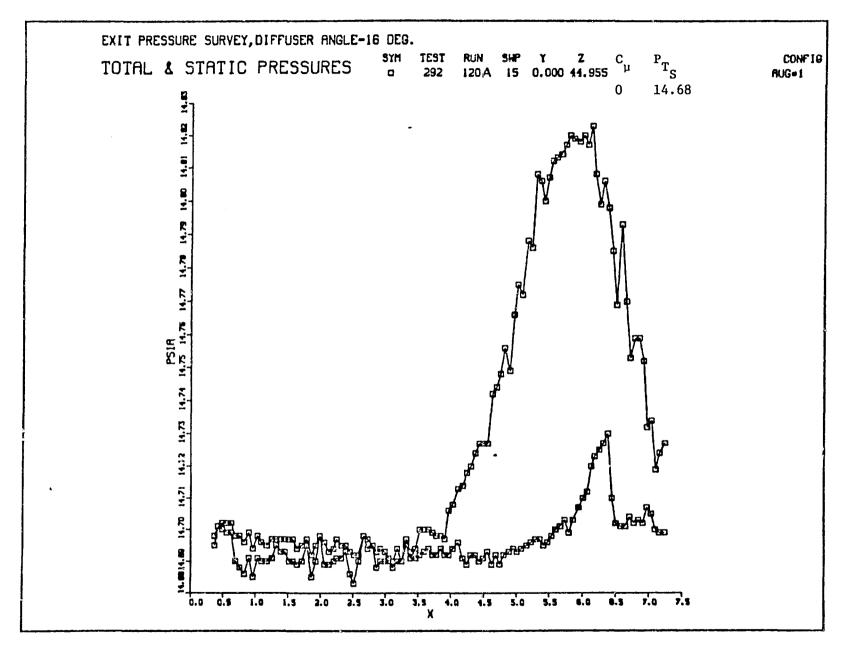


Figure A-11 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

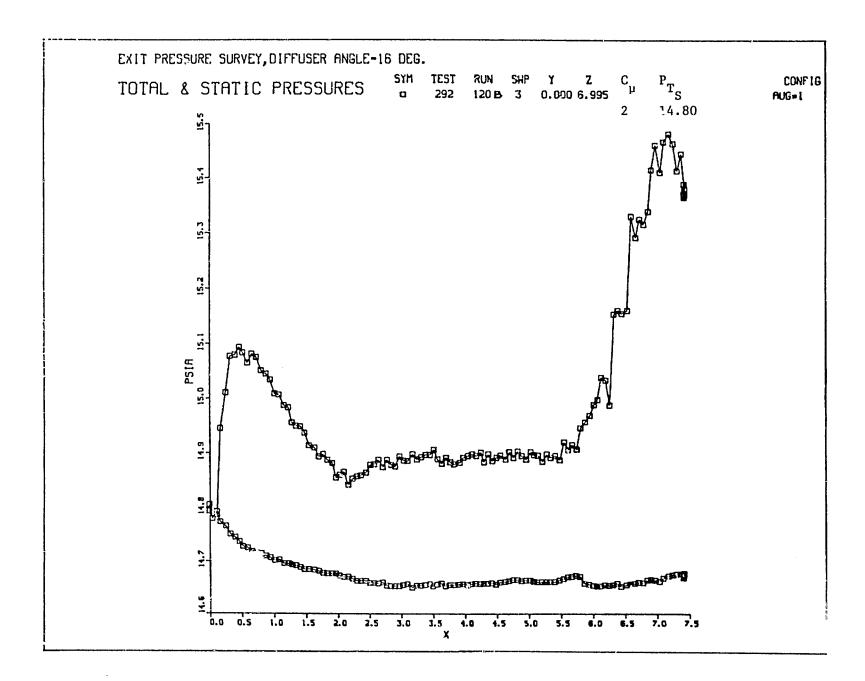


Figure A-12 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

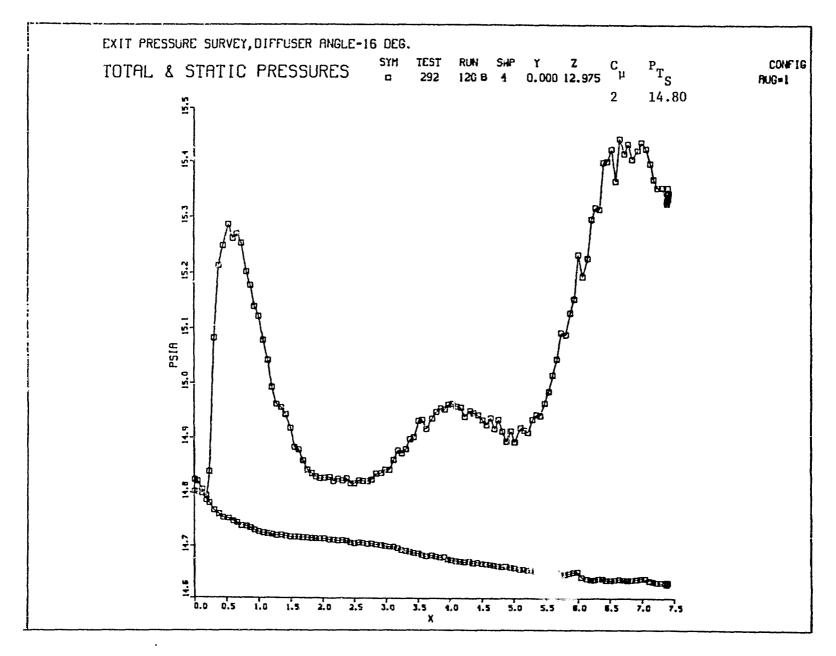


Figure A-12 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

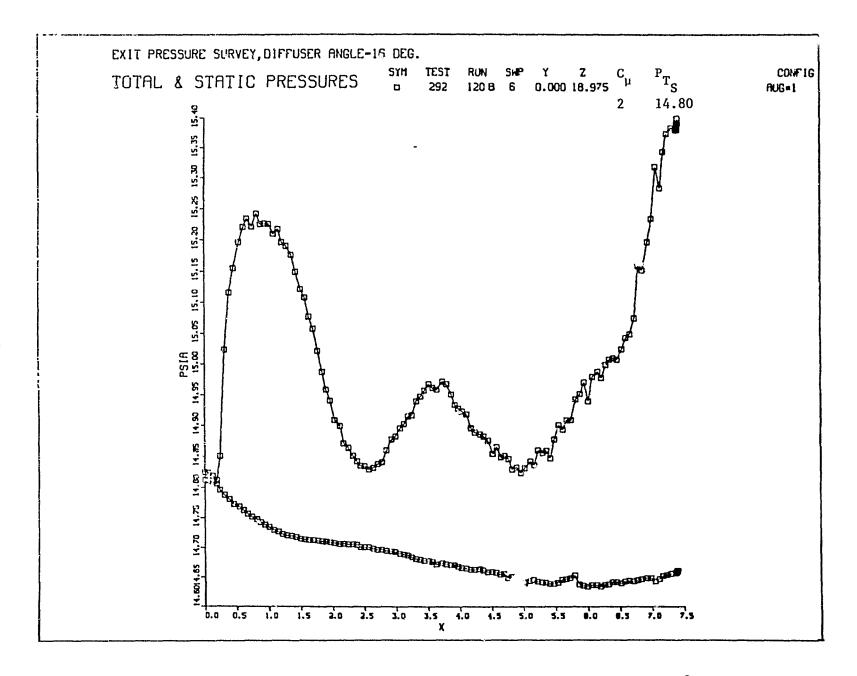


Figure A-12 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

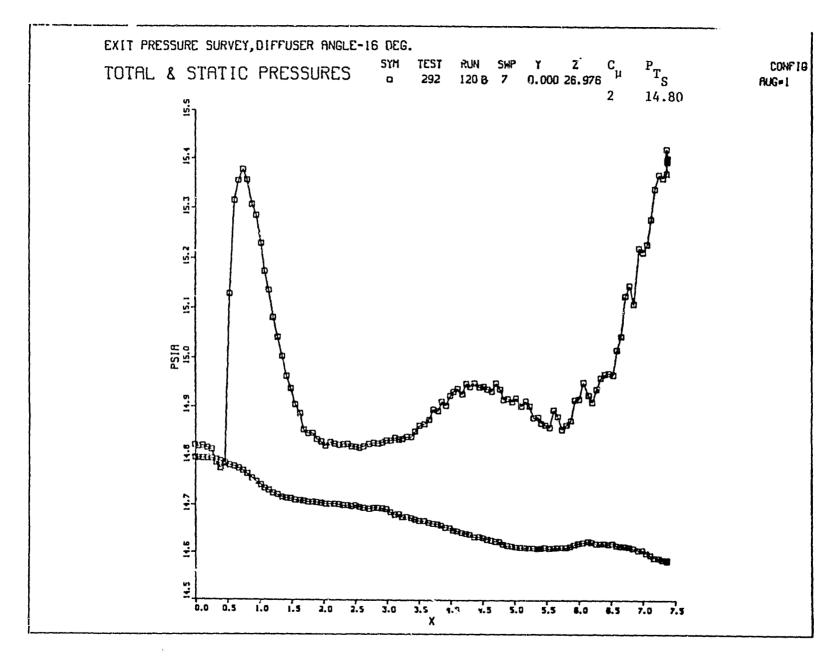


Figure A-12 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

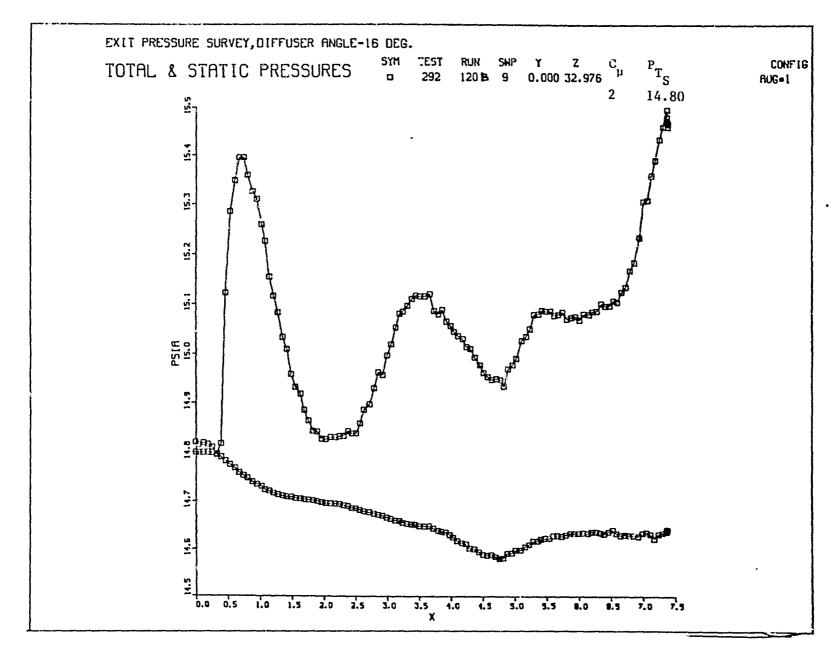


Figure A-12 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0



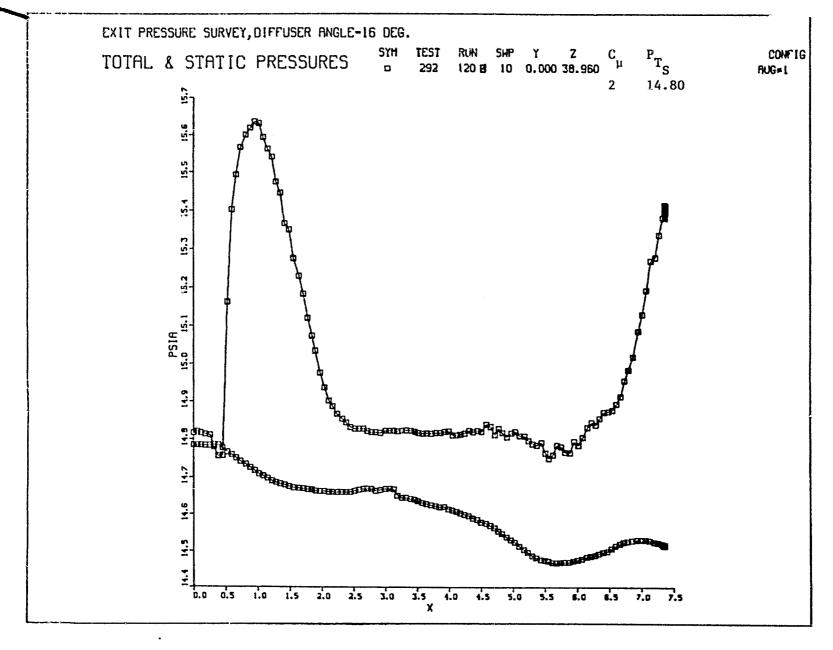


Figure A-12 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

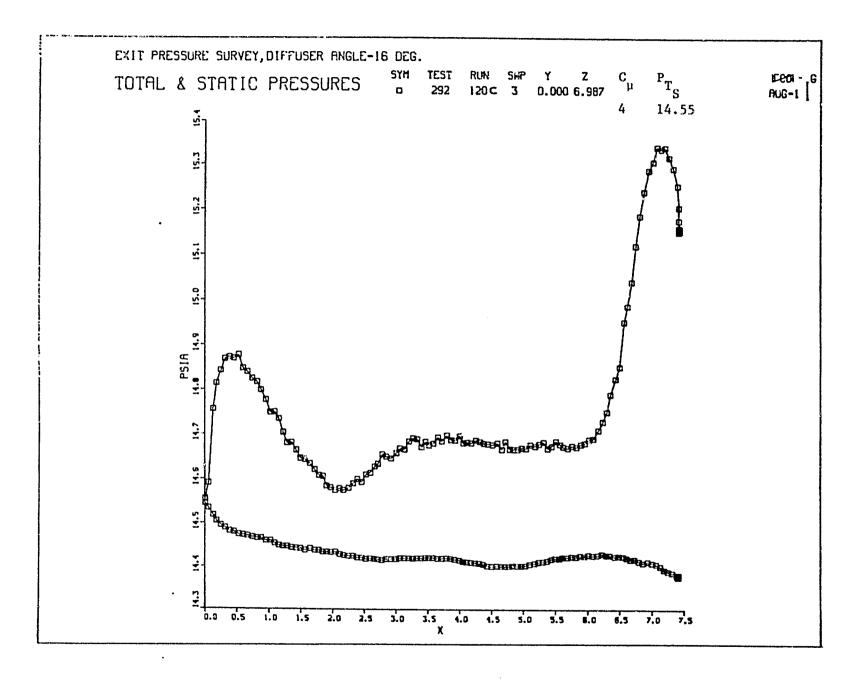


Figure A-13 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

Figure A-13 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

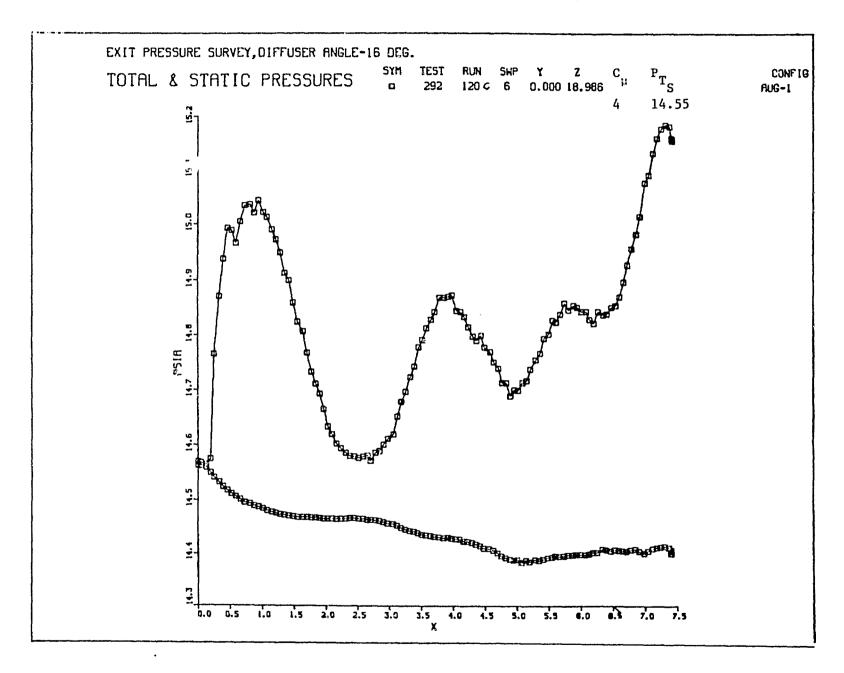


Figure A-13 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

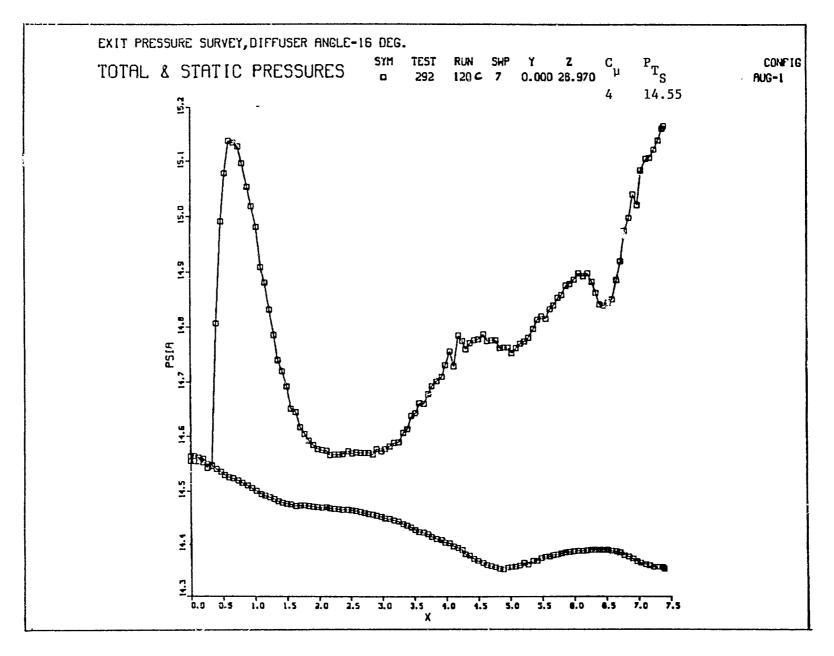


Figure A-13 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

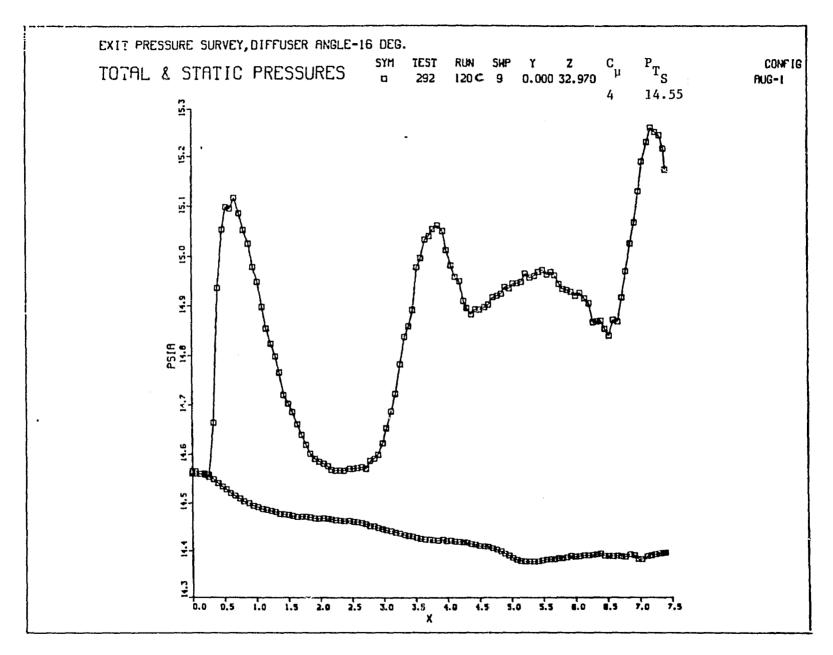


Figure A-13 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

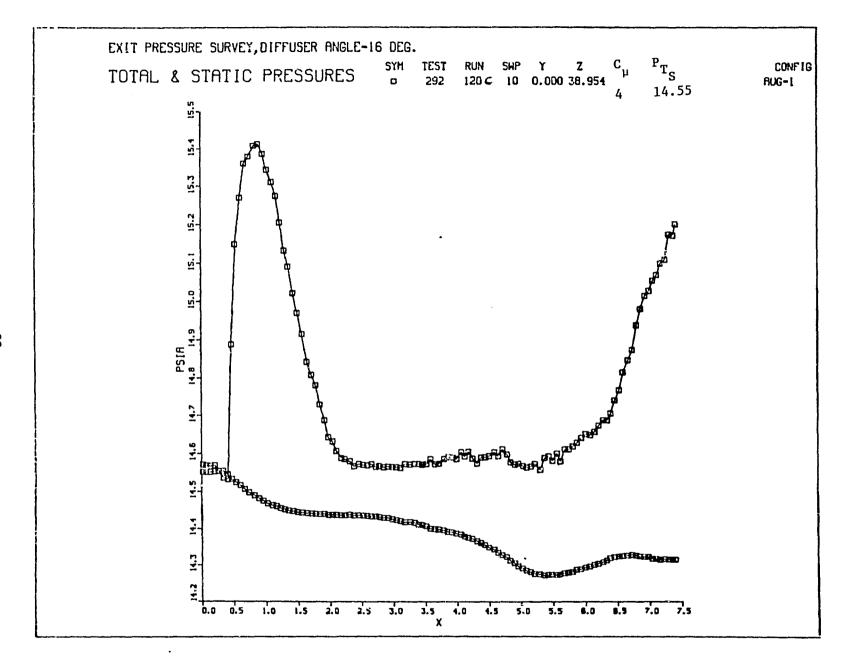


Figure A-13 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

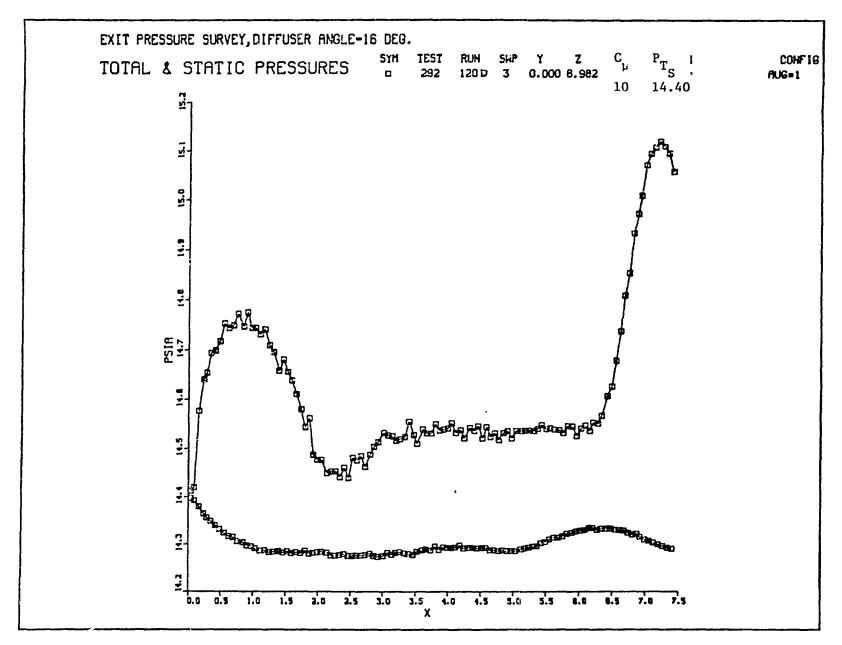


Figure A-14 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

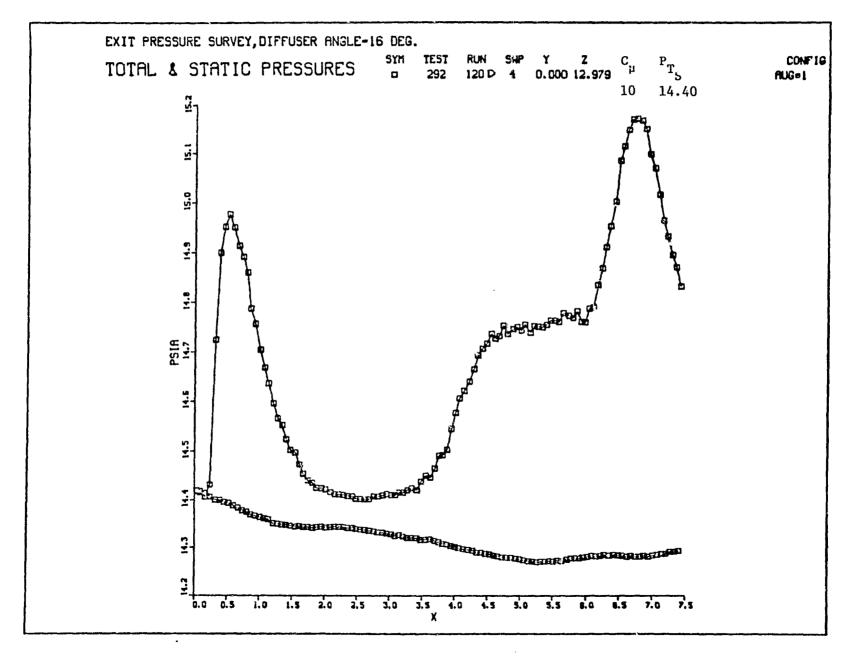


Figure A-14 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0$

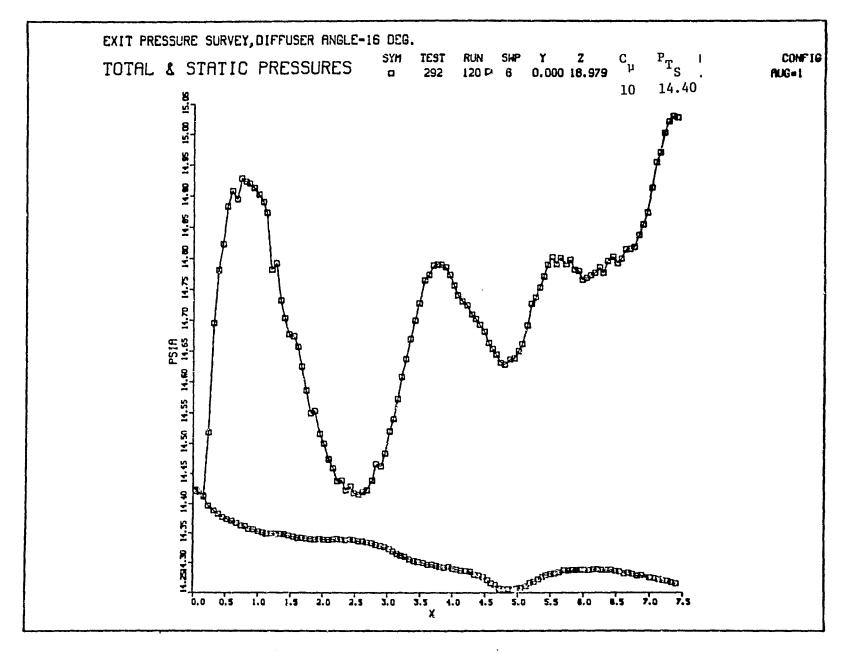


Figure A-14 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

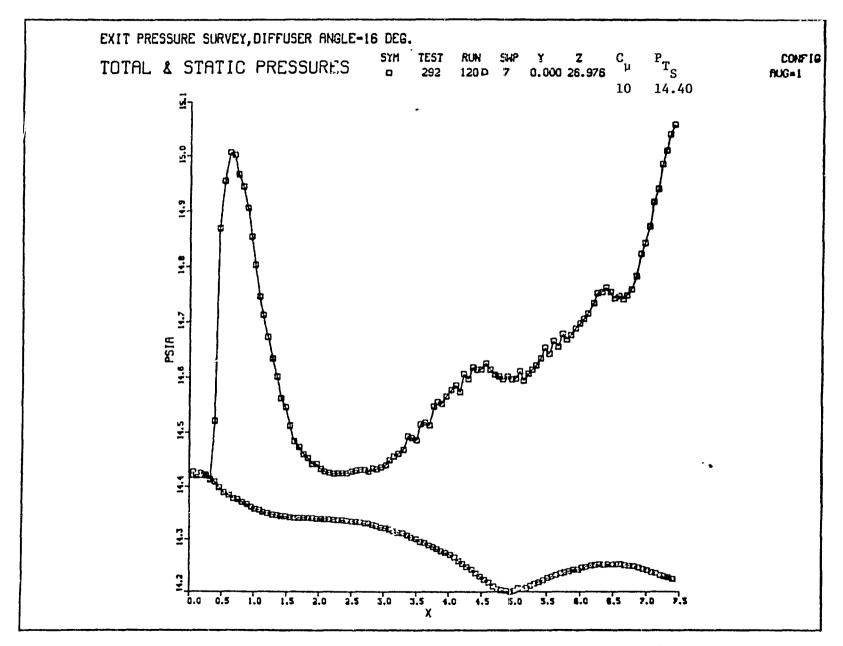


Figure A-14 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

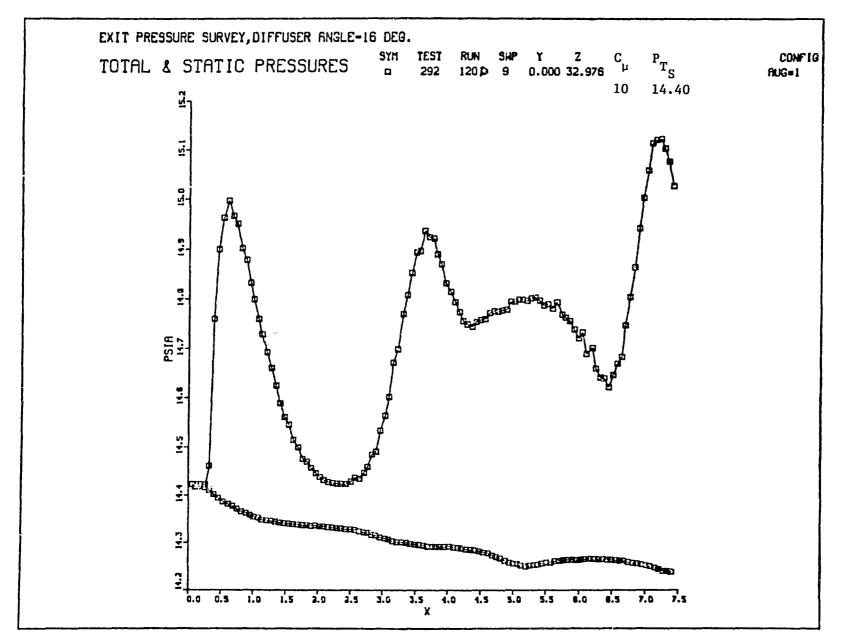


Figure A-14 e. Augmenter Exit Total & Statis Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

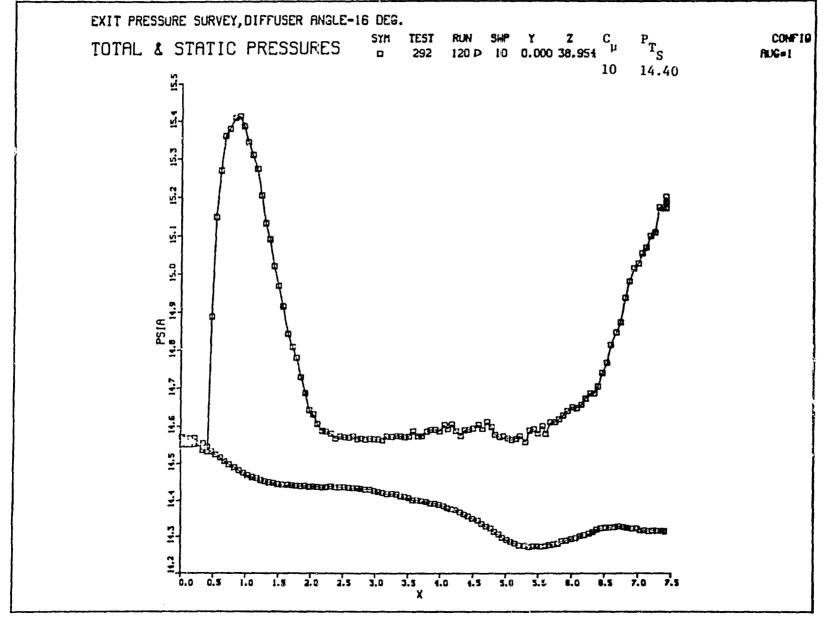


Figure A-14 f. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 0

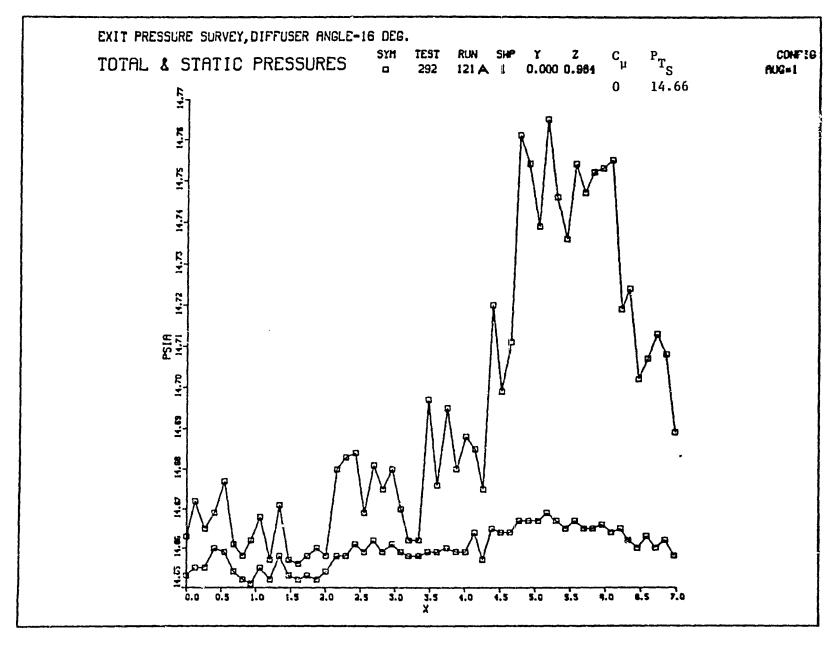


Figure A-15 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

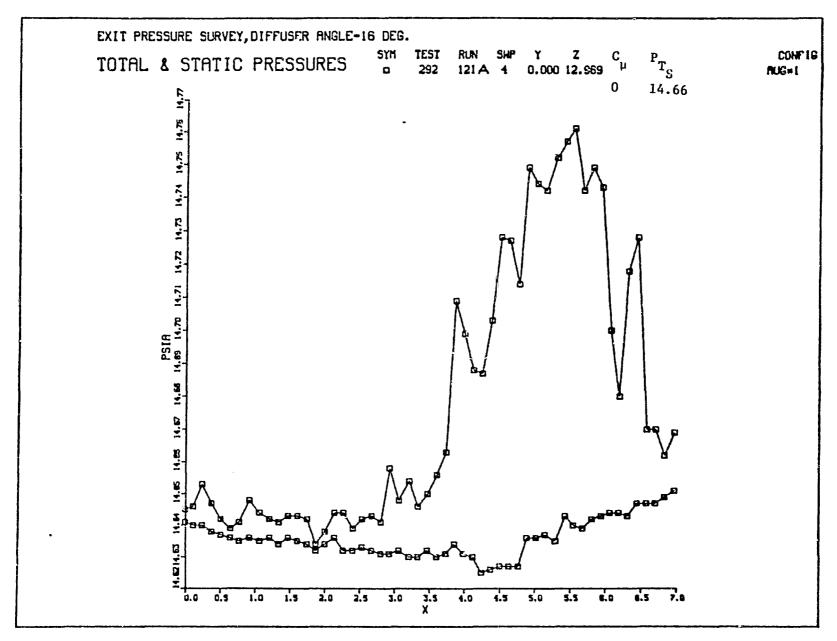


Figure A-15 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

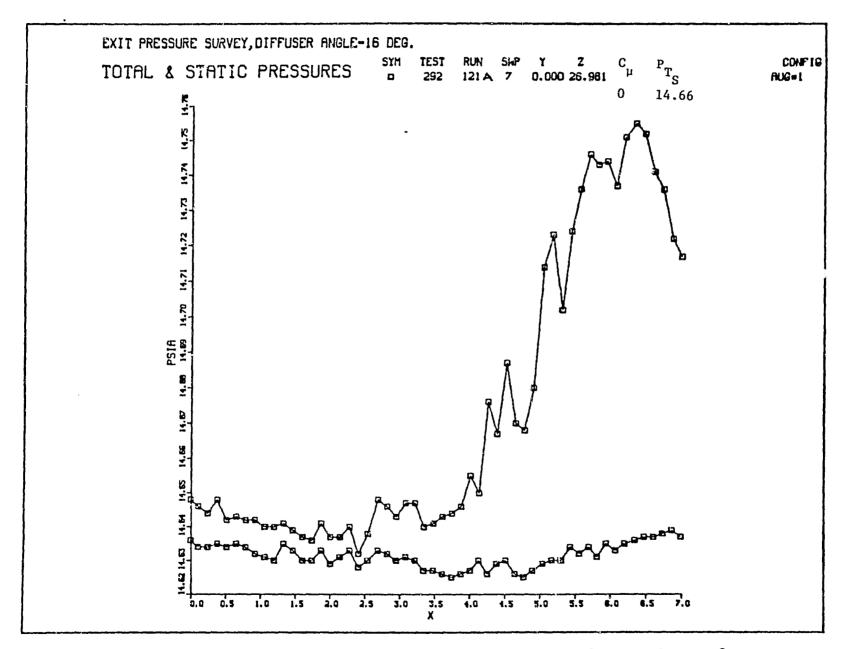


Figure A-15 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

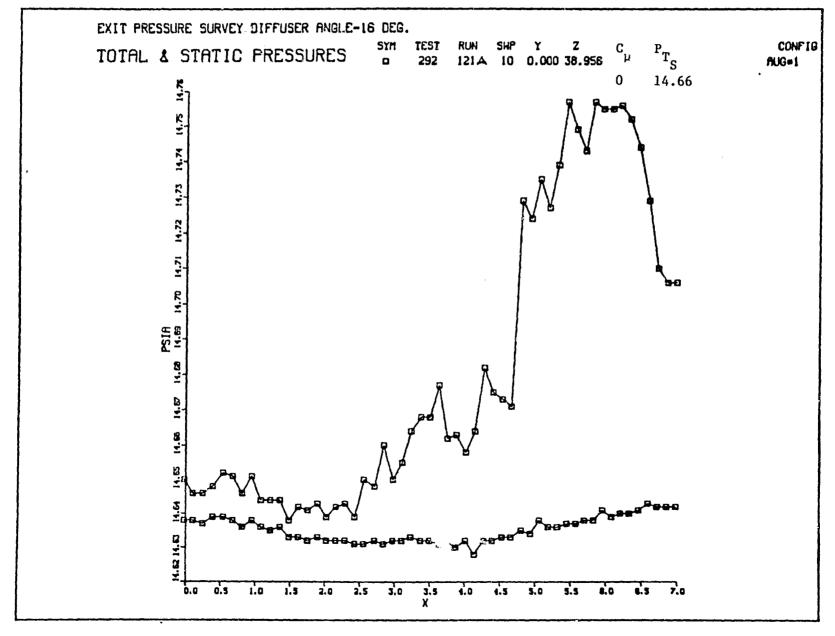


Figure A-15 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 8^{\circ}$

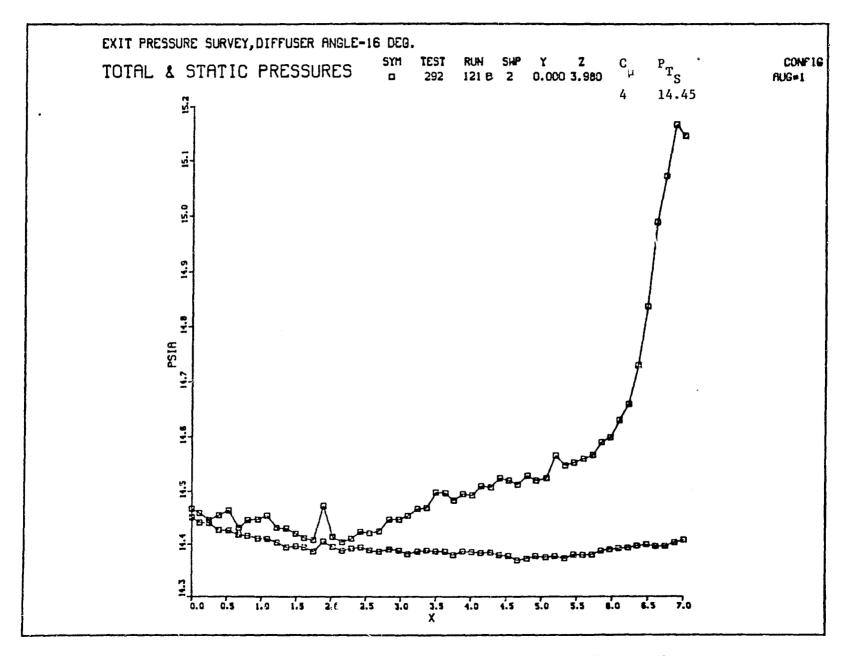


Figure A-16 a. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , 9 = 40° , α = 8°

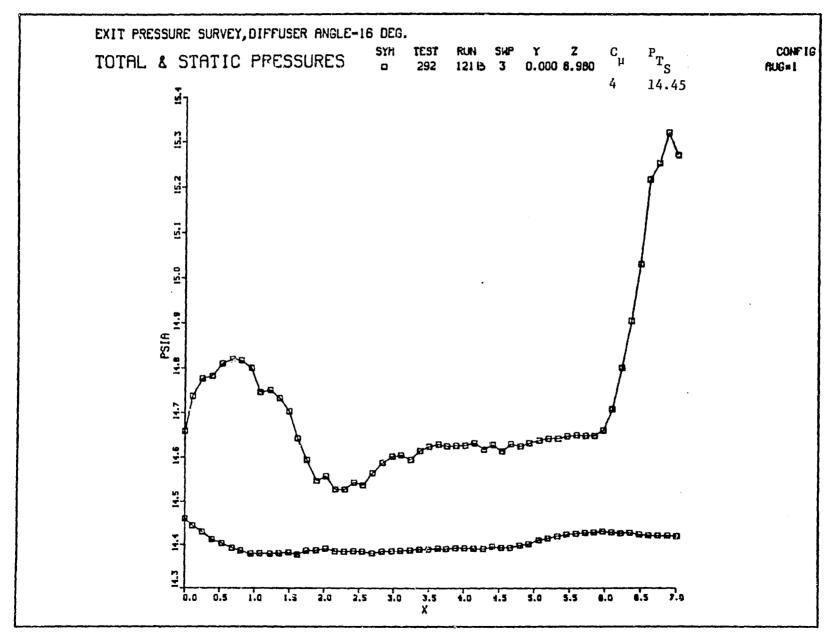


Figure A-16 b. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

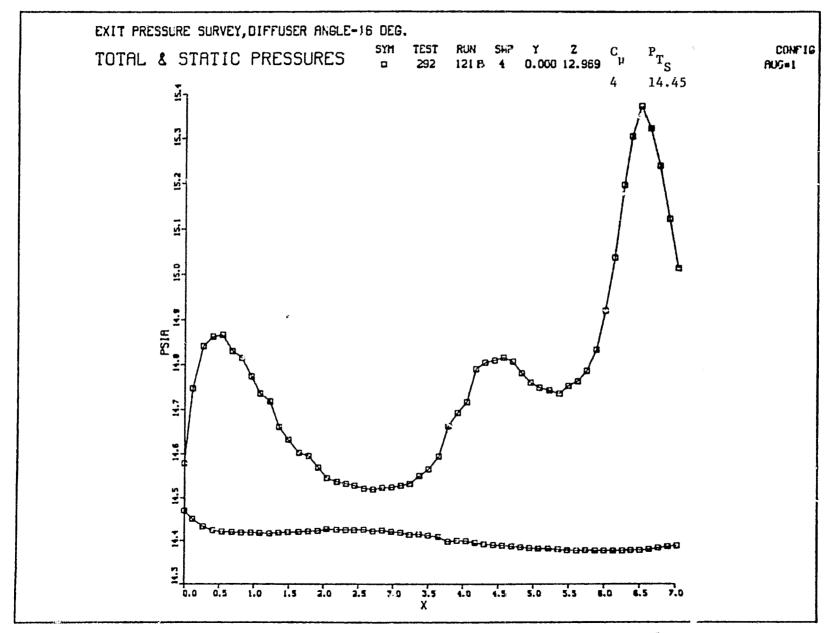


Figure A-16 c. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

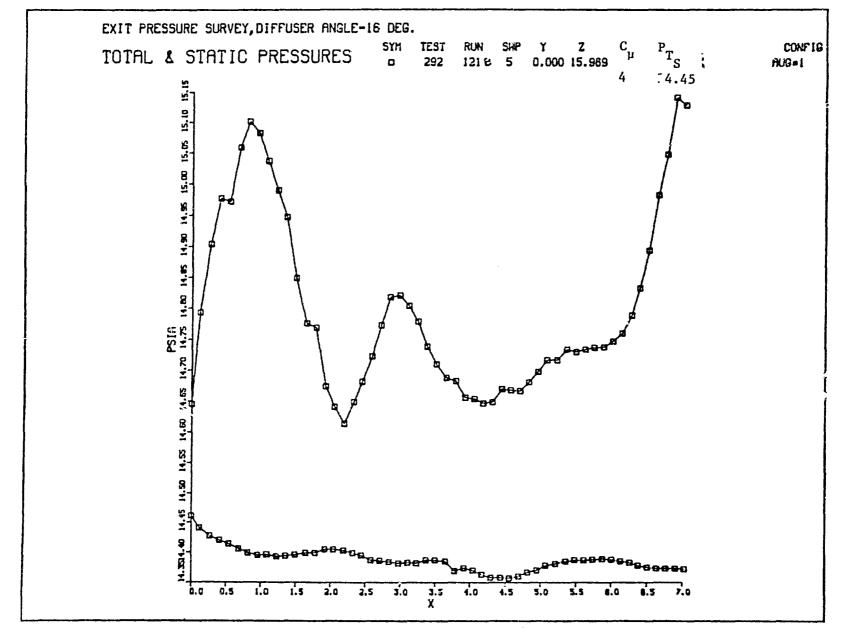


Figure A-16 d. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

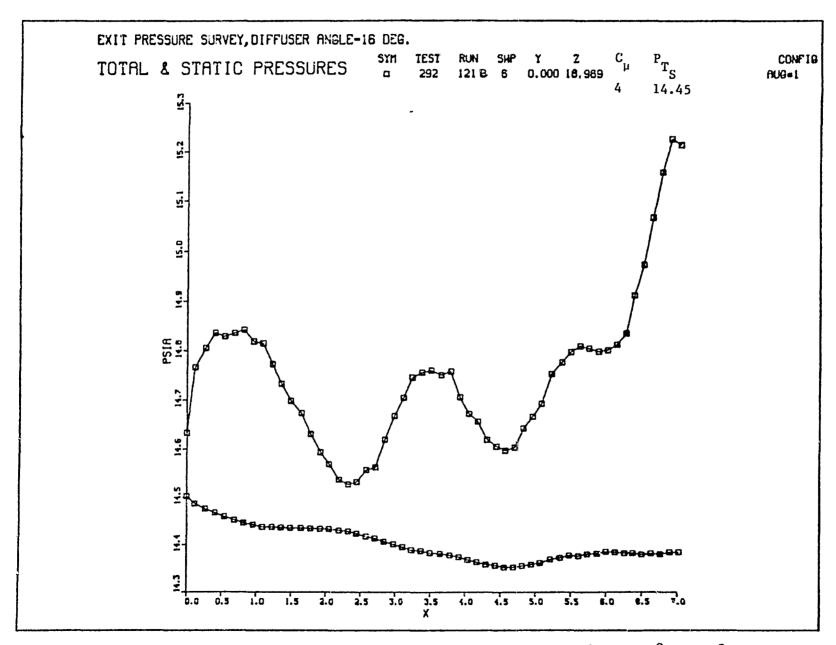
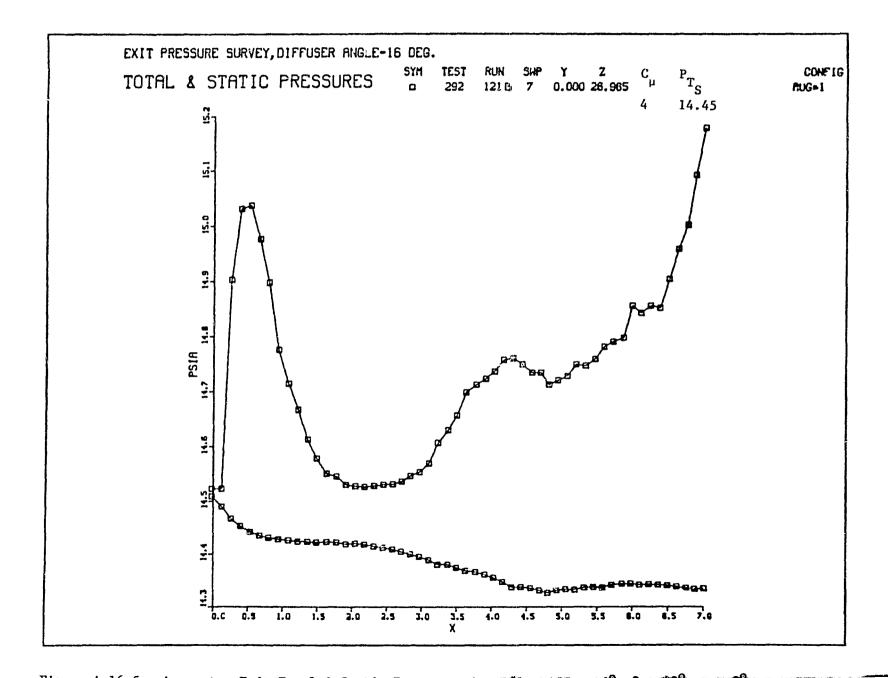


Figure A-16 e. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 8^{\circ}$



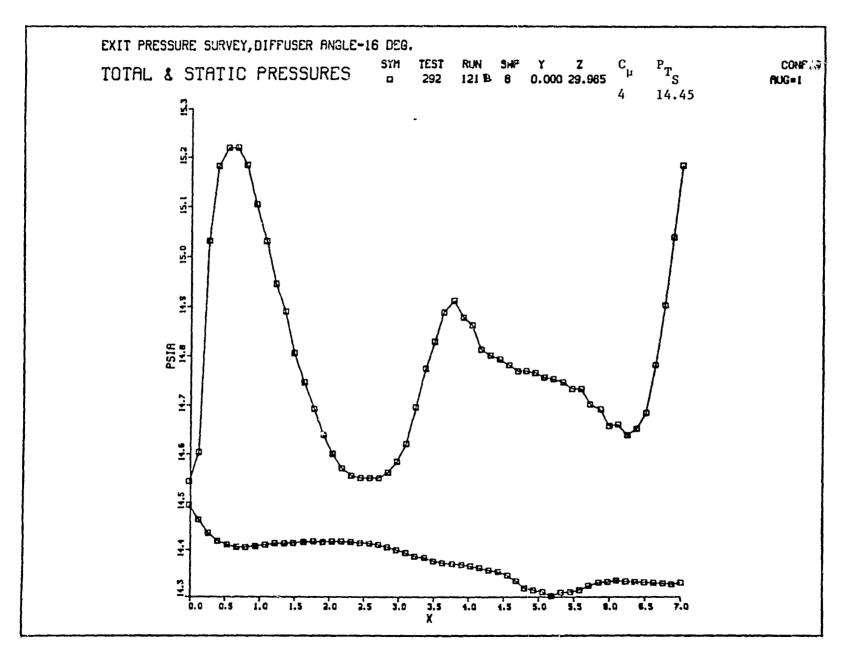


Figure A-16 g. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

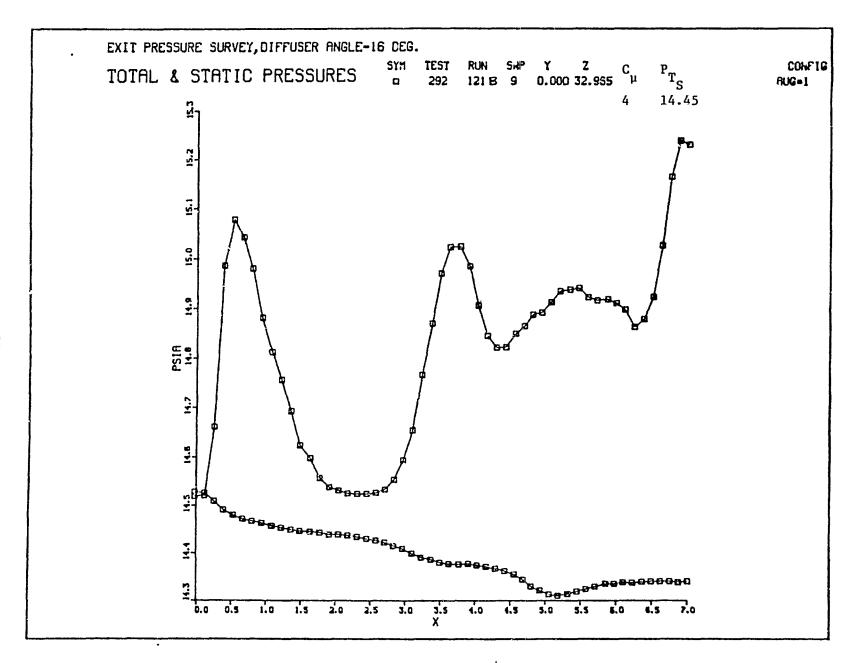


Figure A-16 h. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , θ = 40° , α = 8°

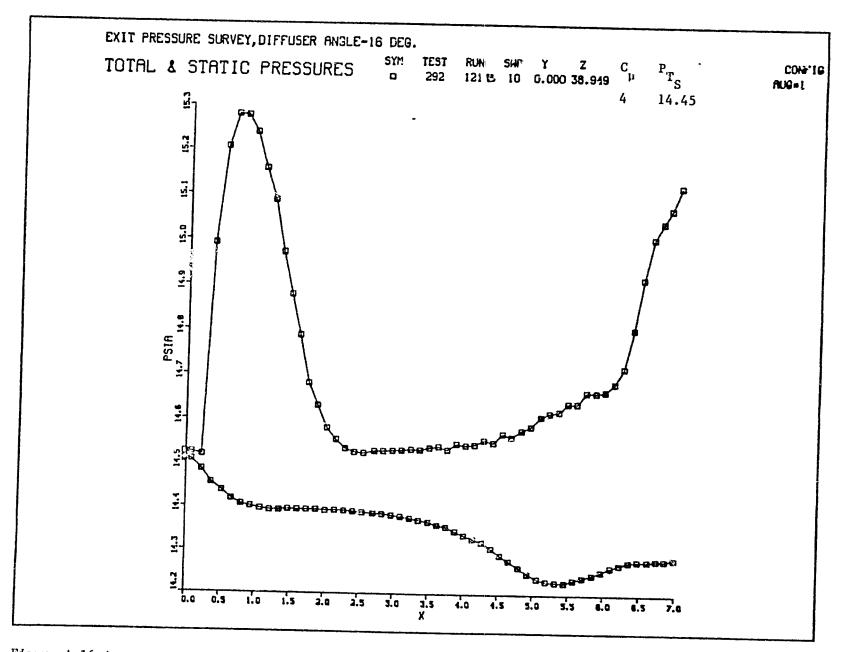


Figure A-16 i. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 8^{\circ}$

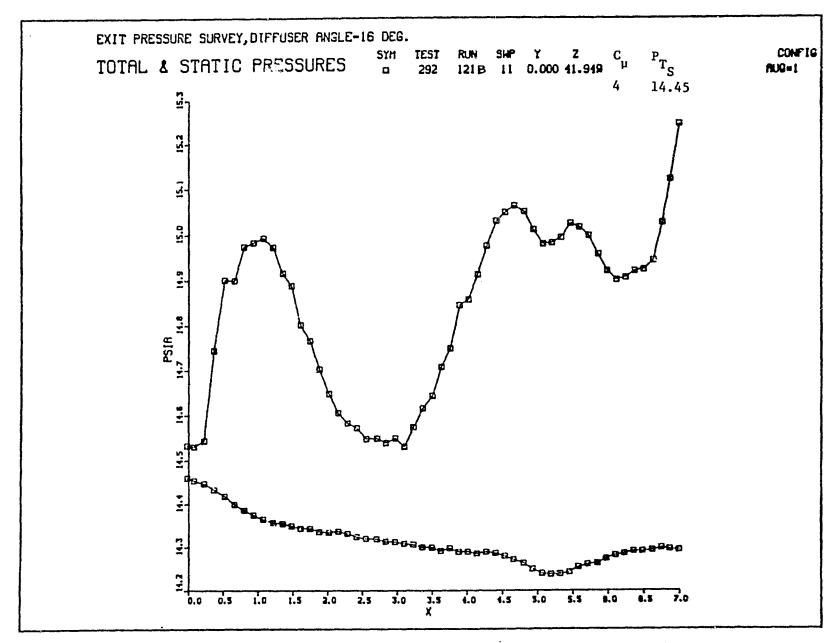


Figure A-16 j. Augmenter Exit Total & Static Pressure, Aug. #1, Diff = 16° , 9 = 40° , α = 8°

A STUDY OF A VTOL THRUSTING EJECTOR IN LOW SPEED FLIGHT

Vearl R. Stewart Rockwell International North American Aircraft Division

APPENDIX B - DOWNWASH SURVEY CONFIGURATION

LIST OF ILLUSTRATIONS

DOWNWASH SURVEY CONFIGURATION

FLCURE	TITLE	RUN	PAGE
B-1 (a-d)	AUG. #1, DIFF. = 16°, θ = 40°, α = 8°, STA. 103	122	121-124
B-2 (a-h)	AUG. #1, DIFF. = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, STA. 103	123	125-132
B-3 (a-d)	AUG. #1, DIFF. = 16°, θ = 40°, α = 0°, STA. 96	125	133-136
B-4 (a-d)	AUG. #1, DIFF. = 16°, θ = 40°, α = 0°, STA. 89	126	137-140
B-5 (a-d)	AUG. #1, DIFF. = 8°, θ = 40°, α = 0°, STA. 89	127	141-144
B-6 (a-d)	AUG. #1, DIFF. = 8°, θ = 40°, α = 0°, STA. 103	128	145-148
B-7 (a-d)	JET FLAP, $\theta = 40^{\circ}$, STA. 89	129	149-152
B-8 (a-d)	JET FLAP, $\theta = 40^{\circ}$, STA. 96	130	153-156
B-9 (a-g)	JET FLAP, $\theta = 40^{\circ}$, STA. 103	131	157-163

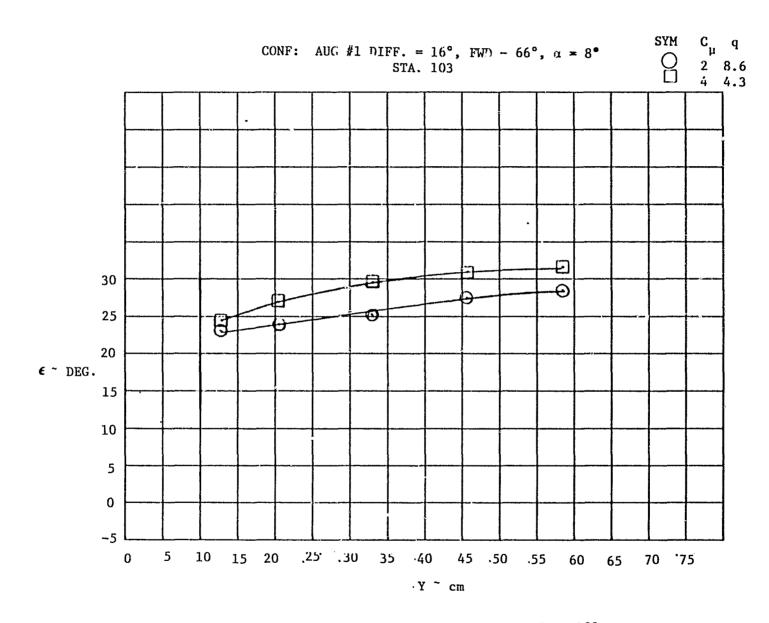


Figure B-1 a. Aug. #1, Diff - 16° , $9 = 40^{\circ}$, $\alpha = 8^{\circ}$, Sta. 103

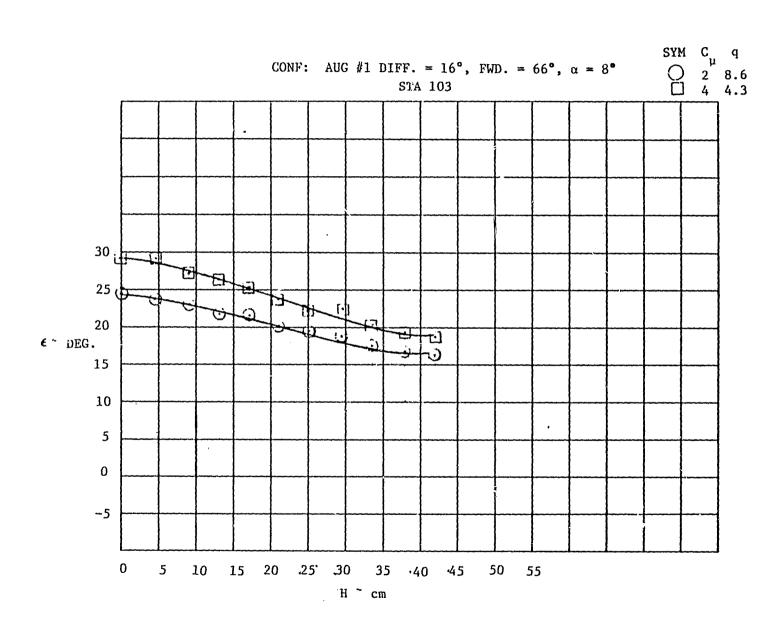


Figure B-1 b. Aug. #1, Diff - 16° , θ 40° , $\alpha = 8^{\circ}$. Sta. 103

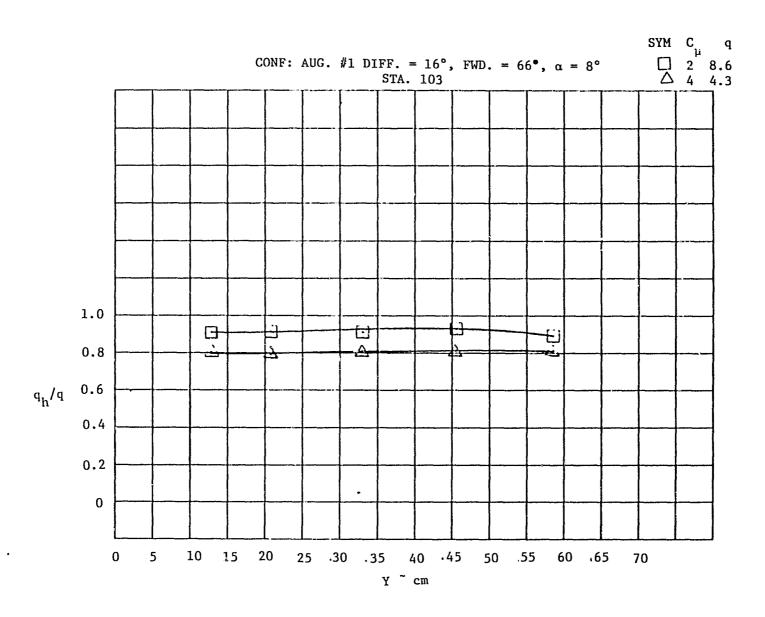


Figure B-1 c. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 8^{\circ}$, Sta. 103

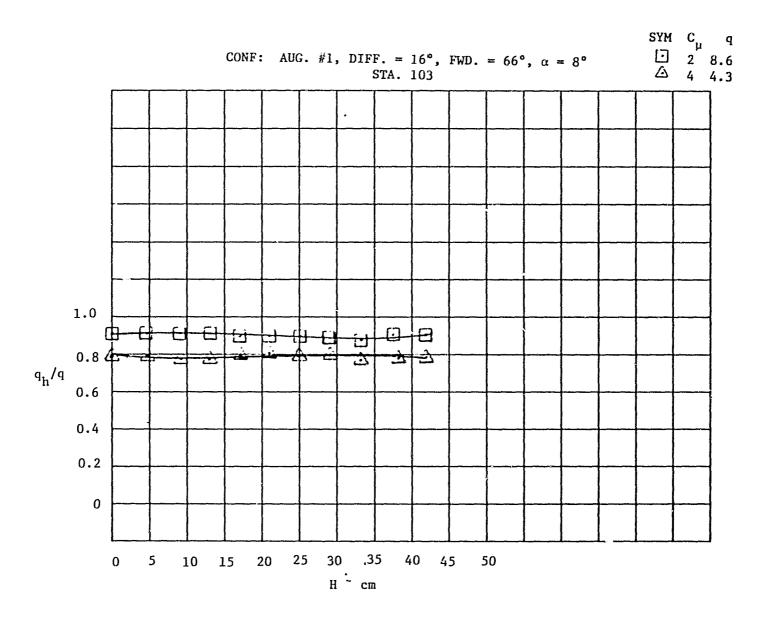


Figure B-1 d. Aug. #1, Diff - 16° , $\theta = 40^{\circ}$, $\alpha = 8^{\circ}$, Sta. 103

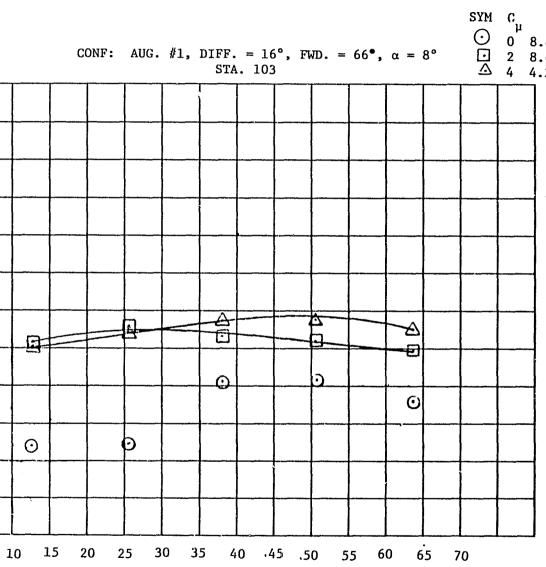


Figure B-2 a. Aug. #1, Diff = 16° , $9 = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 103

Y~ cm

30

25

20

15

10

5

0

-5

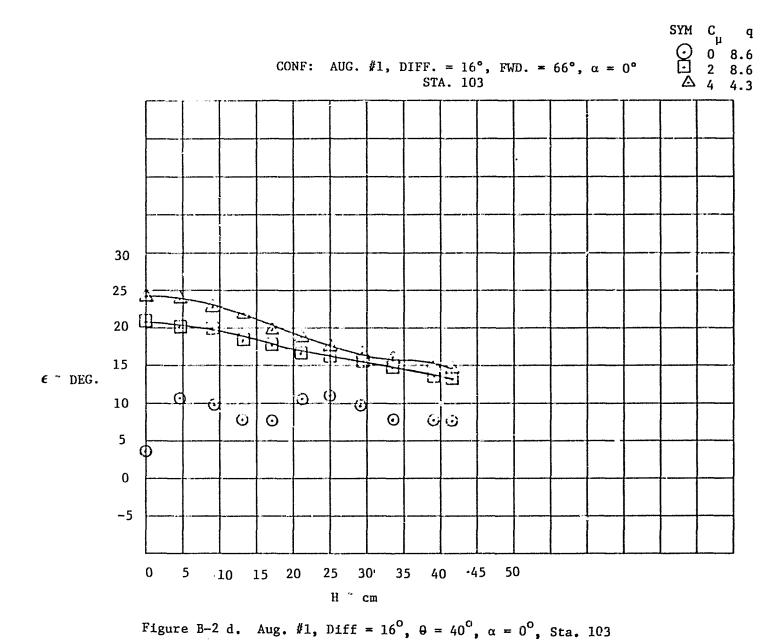
 ϵ DEG.

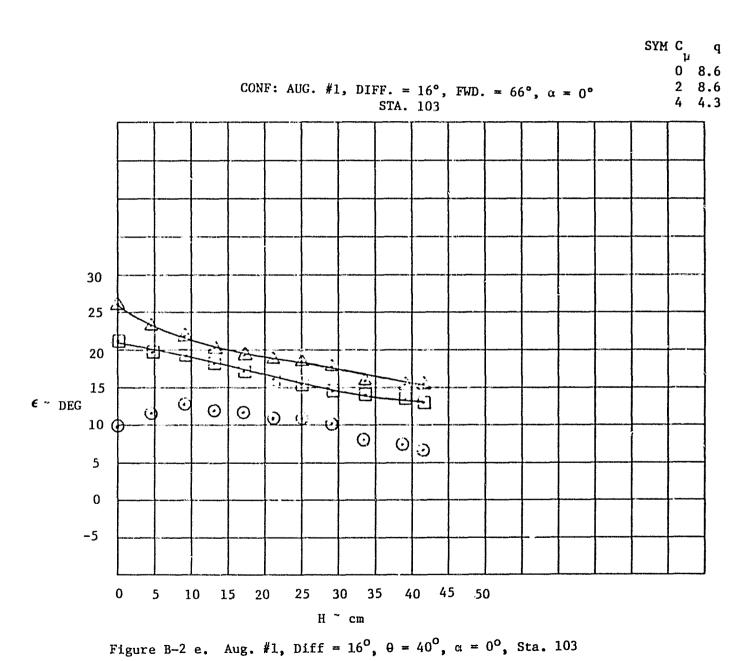
SYM C CONF: AUG. #1, DIFF. = 16°, FWD, = 66°, α = 0° STA. 103 \odot <u>o</u>l (:) Ü (O) 15 20 .25 .30 35 40 45 50 5 10

Figure B-2 b. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 103

H~cm

Figure B-2 c. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 103





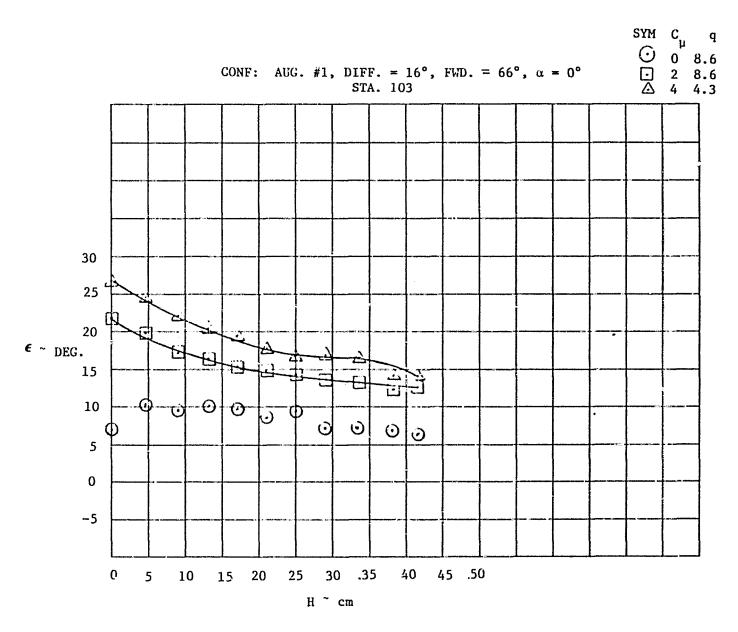
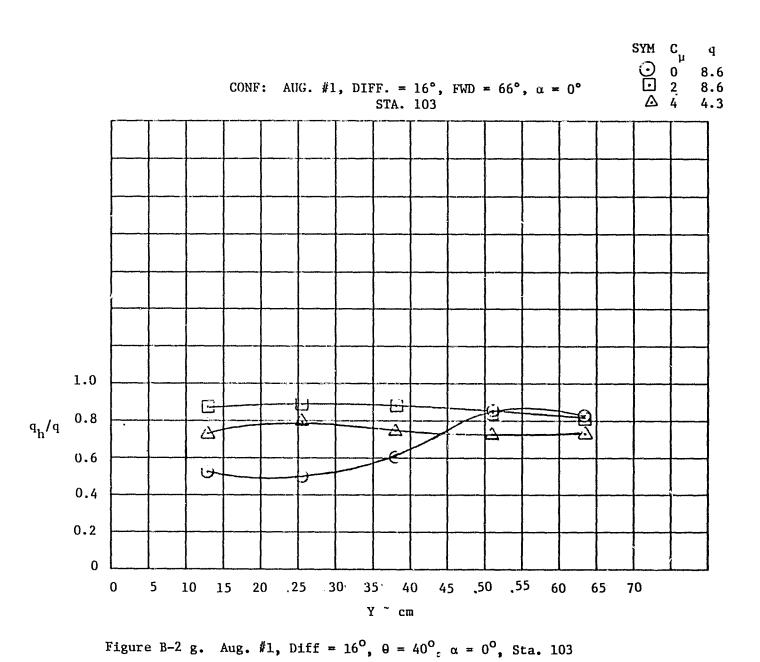


Figure B-2 f. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 103



 $q_{\mathrm{h}}^{\prime}/q$

SYM C q CONF: AUG. #1, DIFF. = 16° , FWD. = 66° , $\alpha = 0^{\circ}$ STA. 103 1.0 0.84 0.6 0.4 0.2 0 35 40 45 50 5 10 15 20 25 30

H °cm

Figure B-2 h. Aug. #1, Diff. = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 103

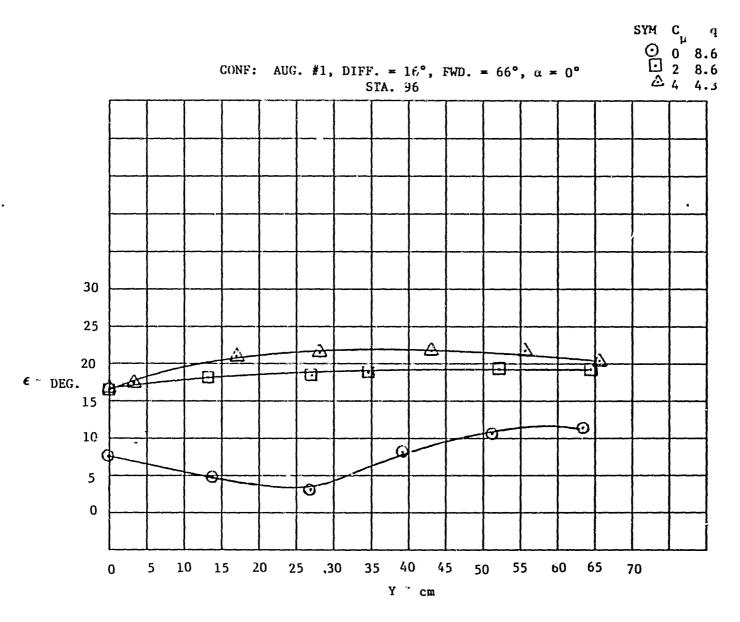
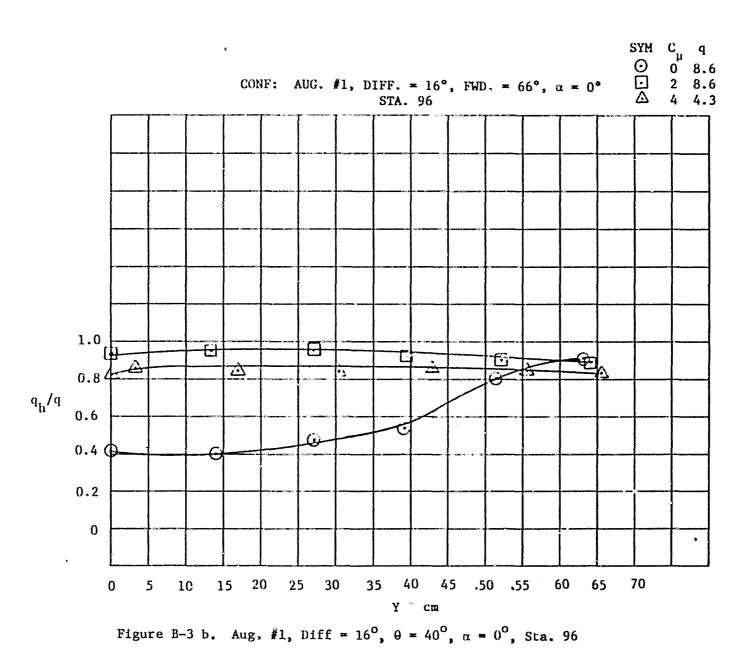


Figure B-3 a. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 96



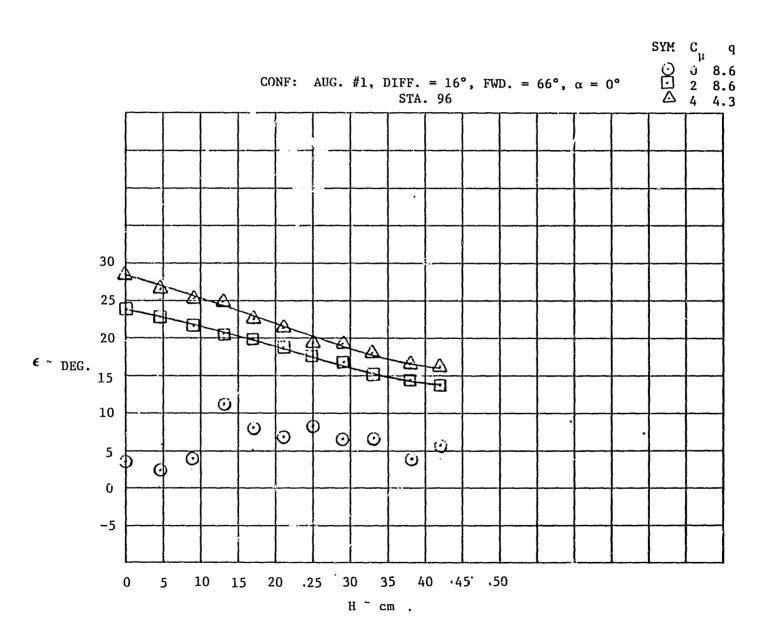
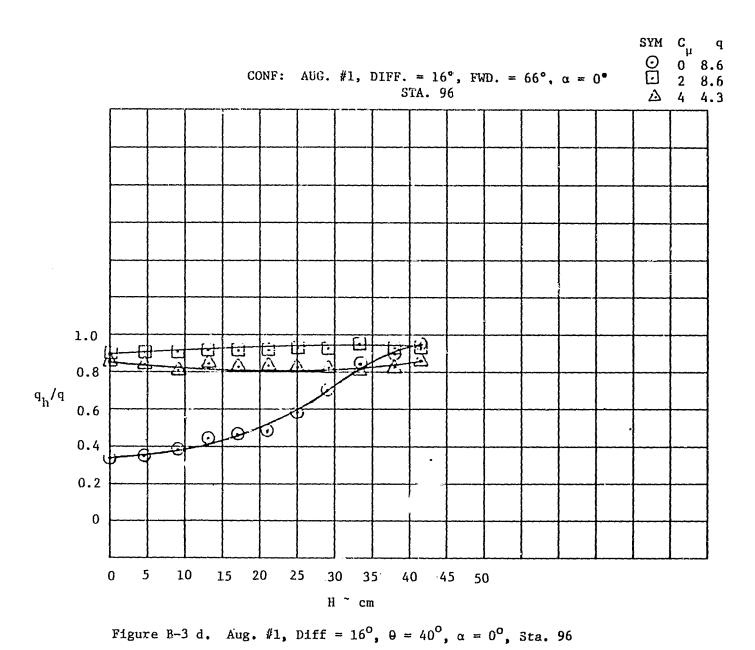


Figure B-3 c. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 96



○ 0 8.6 ○ 2 8.6 △ 4 4.3 CONF: AUG. #1, DIFF = 16°, FWD. = 66°, α = 0° STA. 89 25 20 15 € ~ DEG. 0 0 0 **(**i) 10 0 0 5 0 ~5 5 10 15 20 25 30 35 40 445 50 .55 60 0 65 70 Y~cm

Figure B-4 a. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 89

1

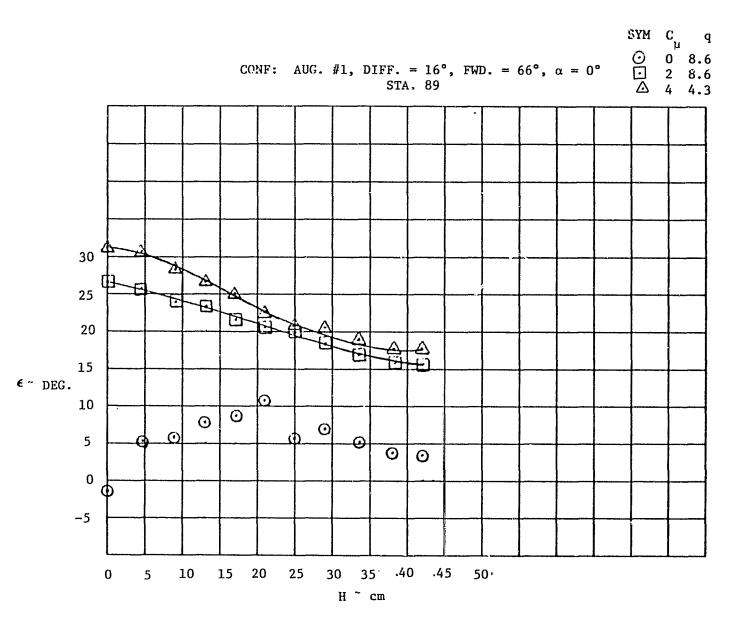


Figure B-4 b. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 89

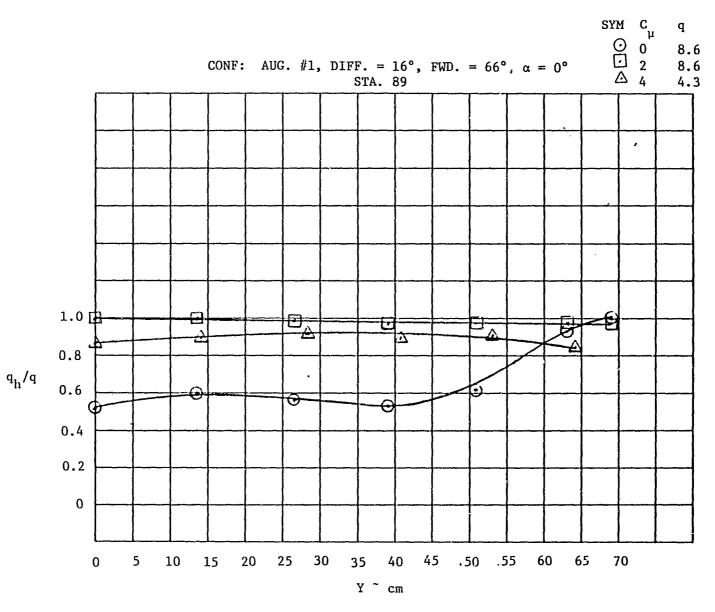
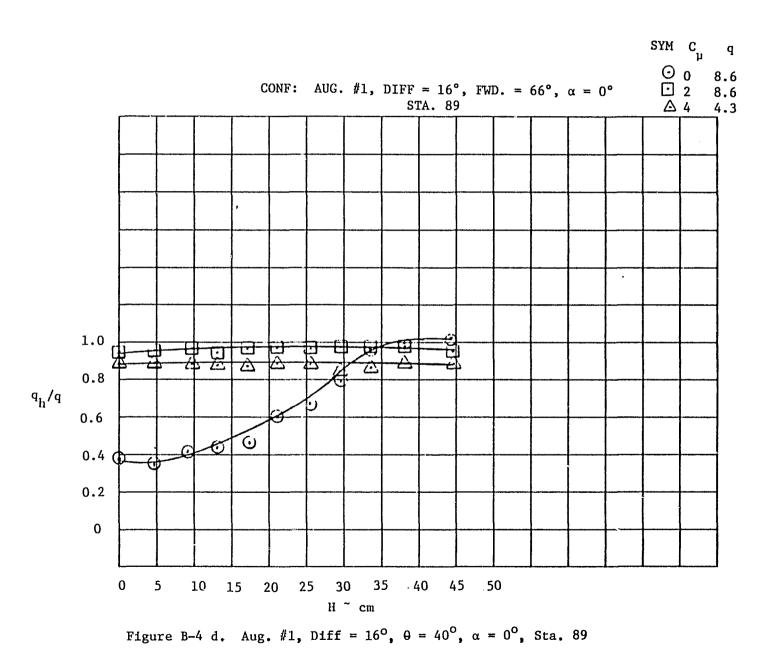
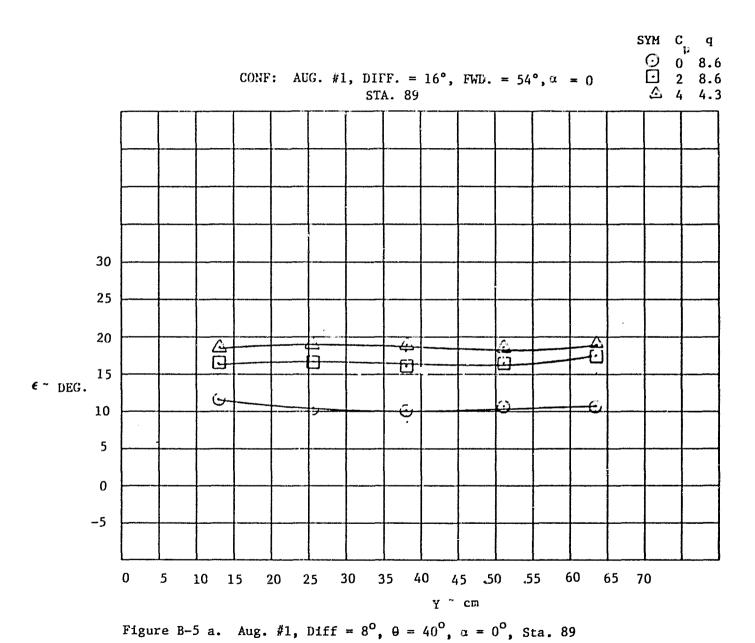
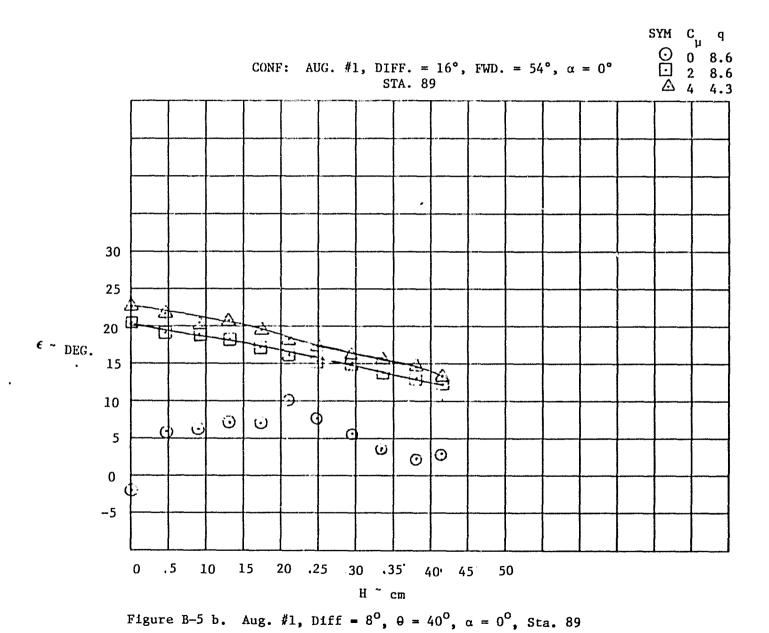


Figure B-4 c. Aug. #1, Diff = 16° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 89

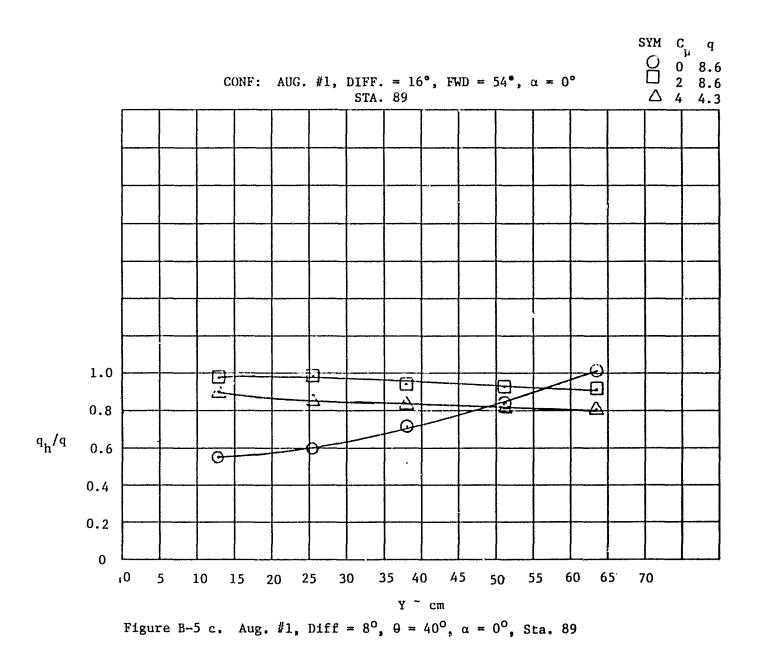








ì



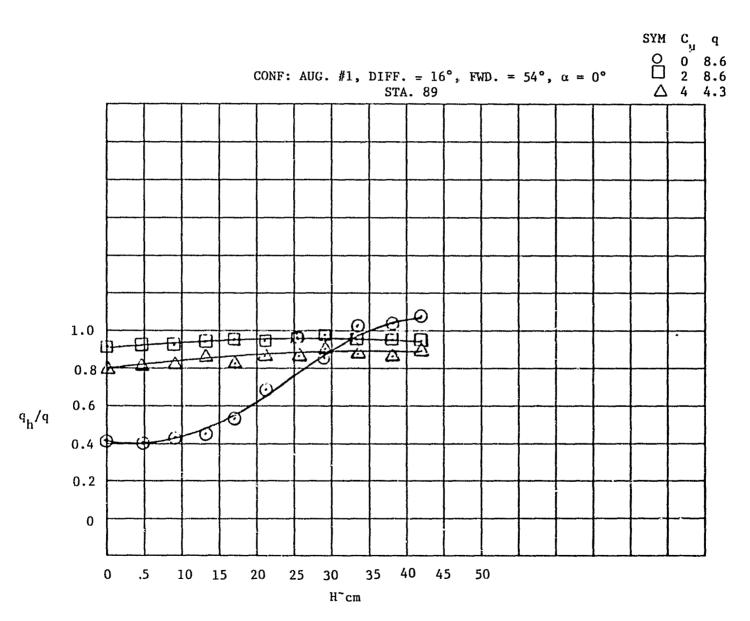
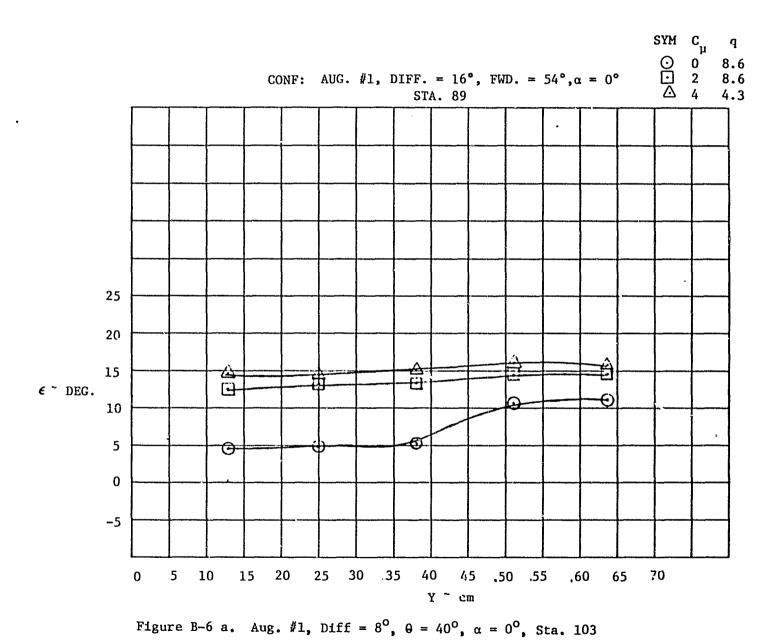
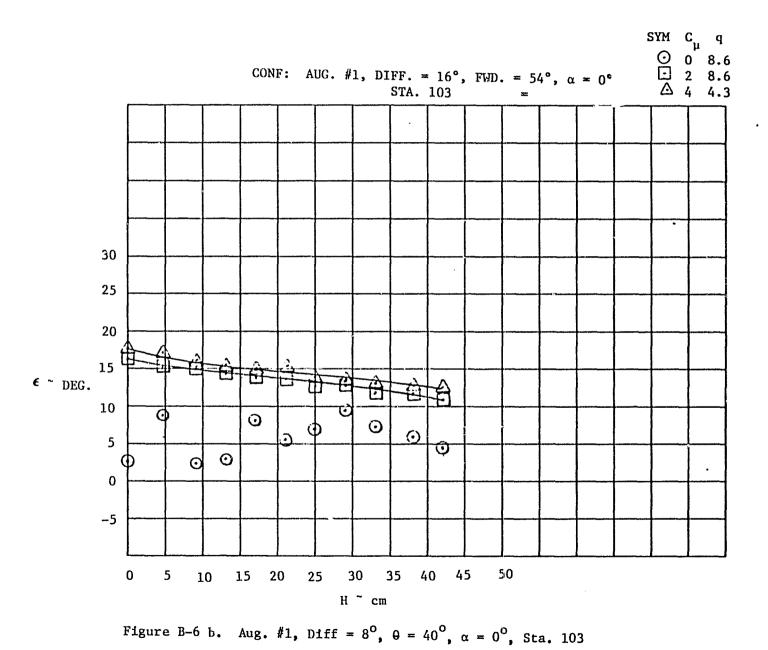
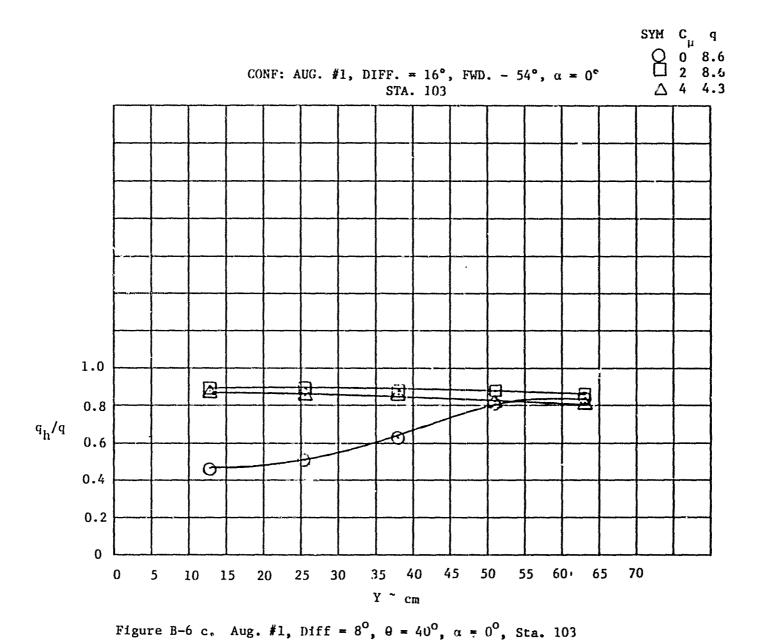
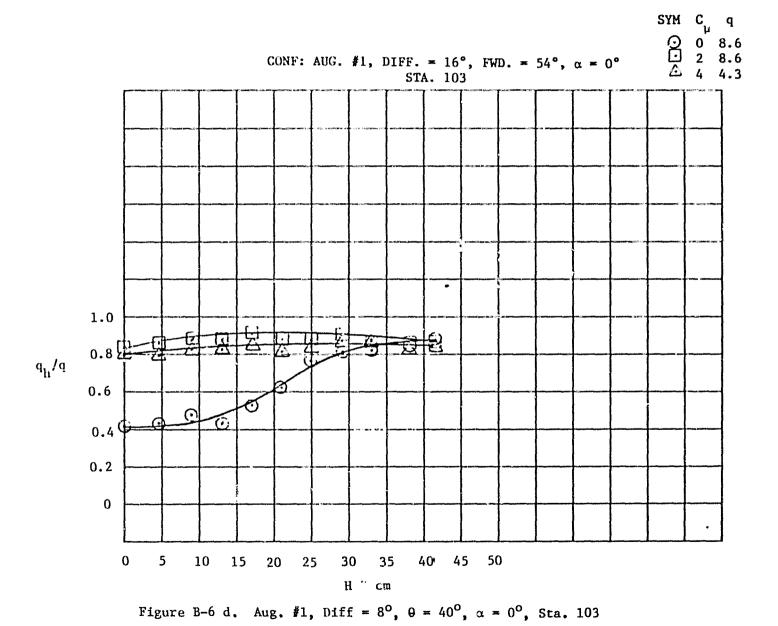


Figure B-5 d. Aug. #1, Diff = 8° , $\theta = 40^{\circ}$, $\alpha = 0^{\circ}$, Sta. 89









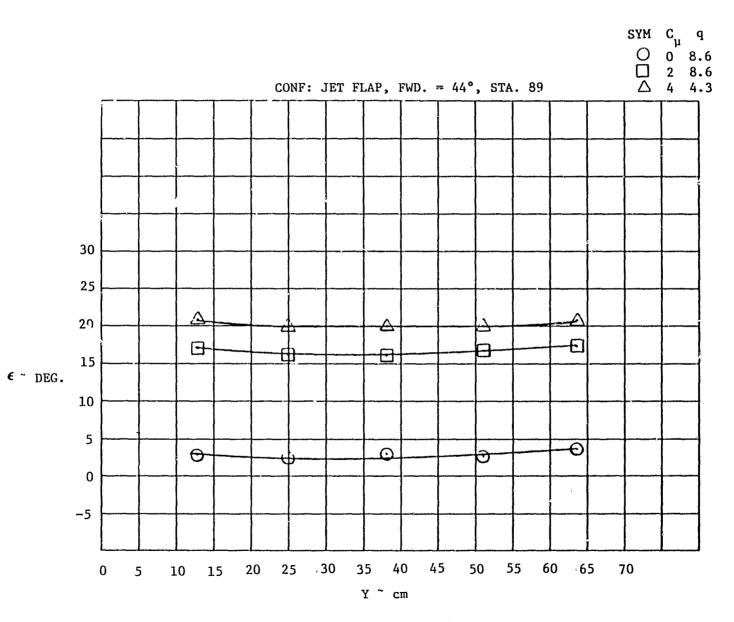
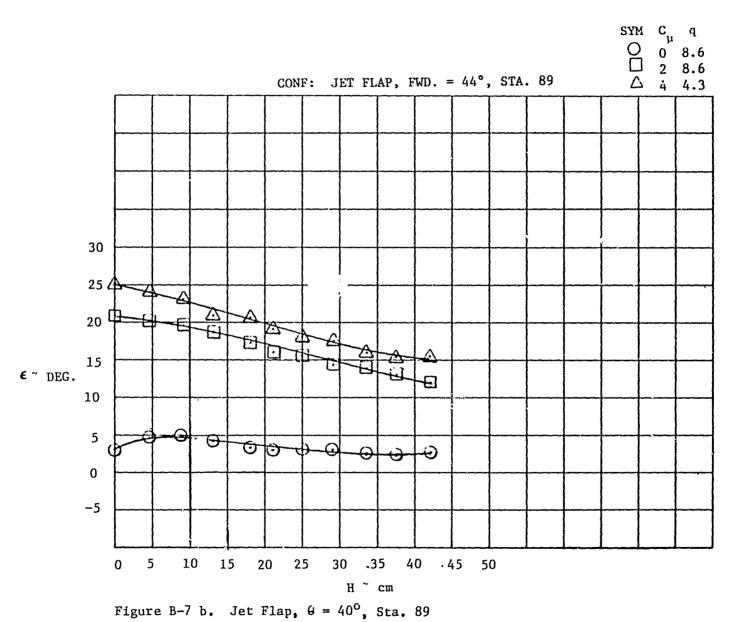


Figure B-7 a. Jet Flap, $\theta = 40^{\circ}$, Sta. 89



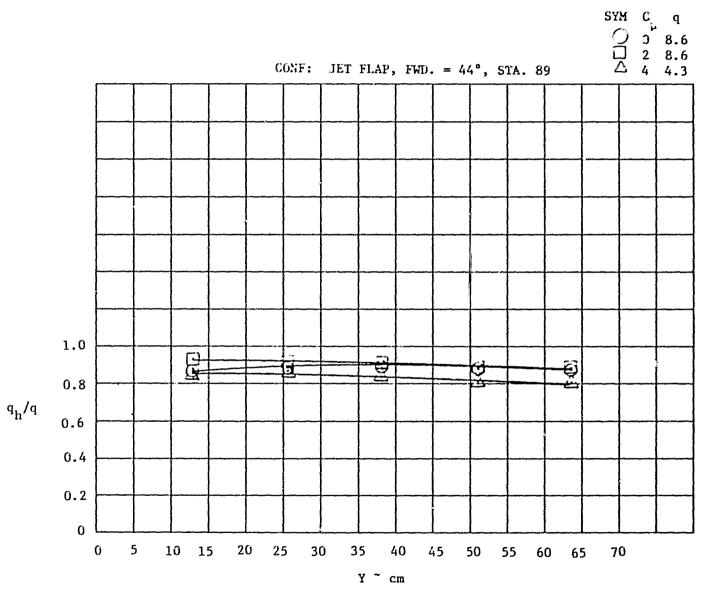


Figure B-7 c. Jet Flap, $\theta = 40^{\circ}$, Sta. 89

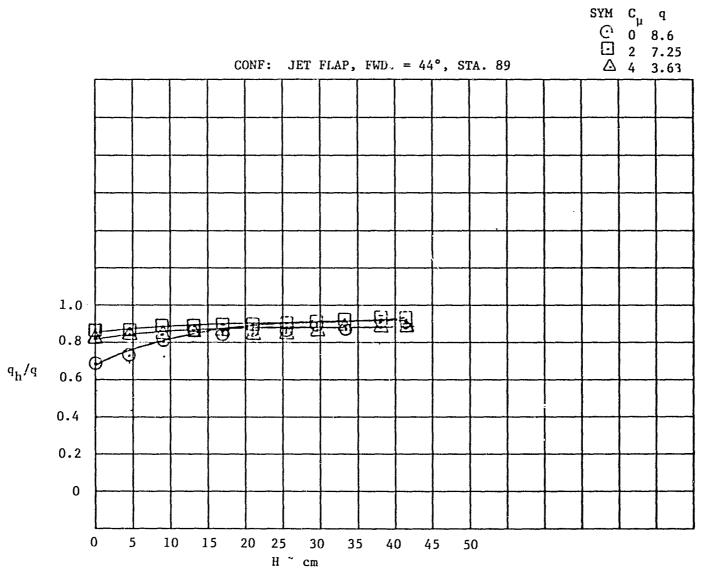


Figure B-7 d. Jet Flap, $\theta = 40^{\circ}$, Sta. 89

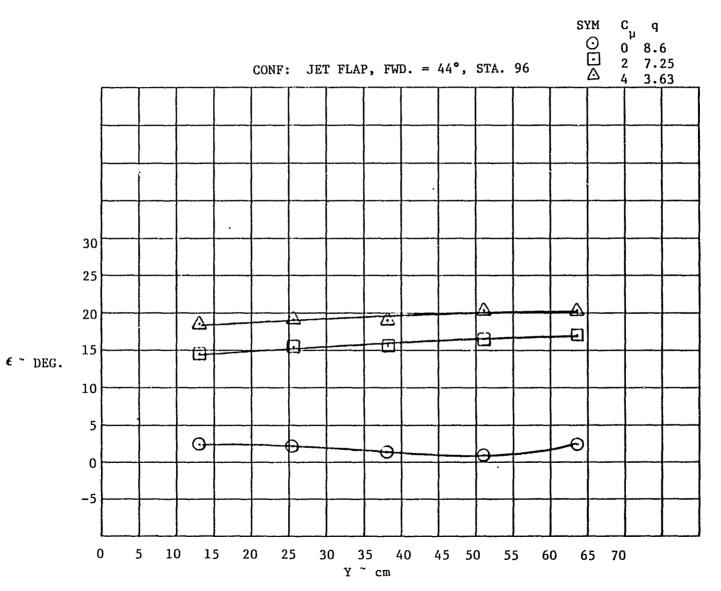


Figure B-3 a. Jet Flap, $\theta = 40^{\circ}$, Sta. 96

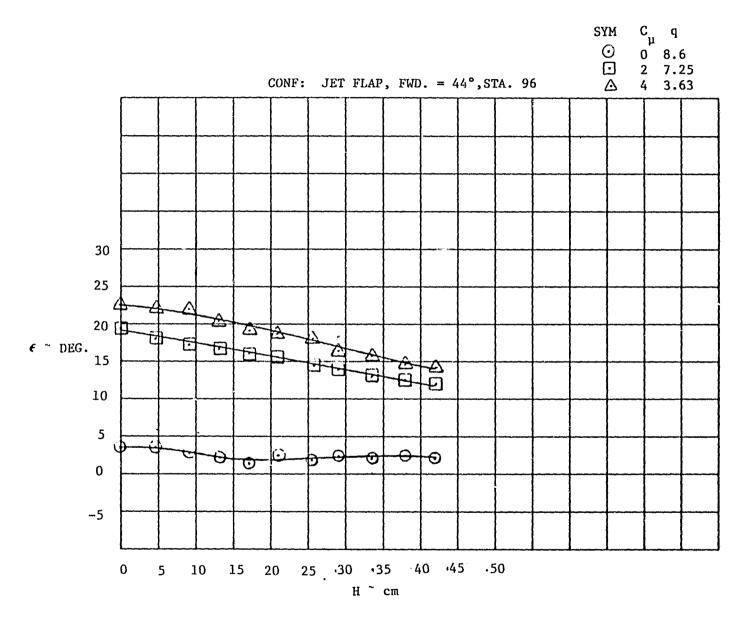


Figure B-8 b. Jet Flap, $\theta = 40^{\circ}$, Sta. 96

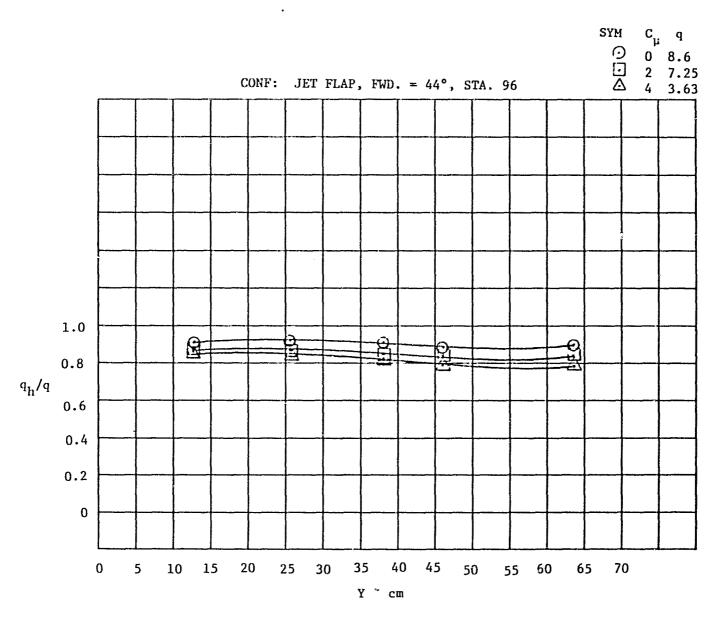


Figure B-8 c. Jet Flap, $\theta = 40^{\circ}$, Sta. 96

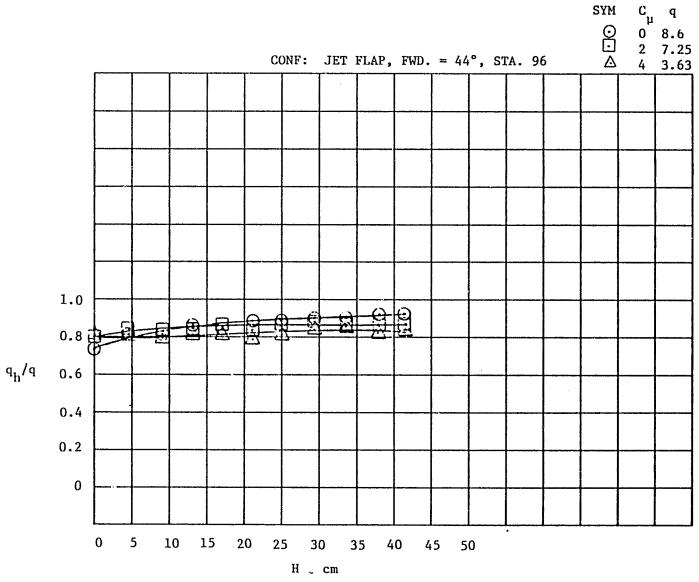


Figure B-8 d. Jet Flap, $\theta = 40^{\circ}$, Sta. 96

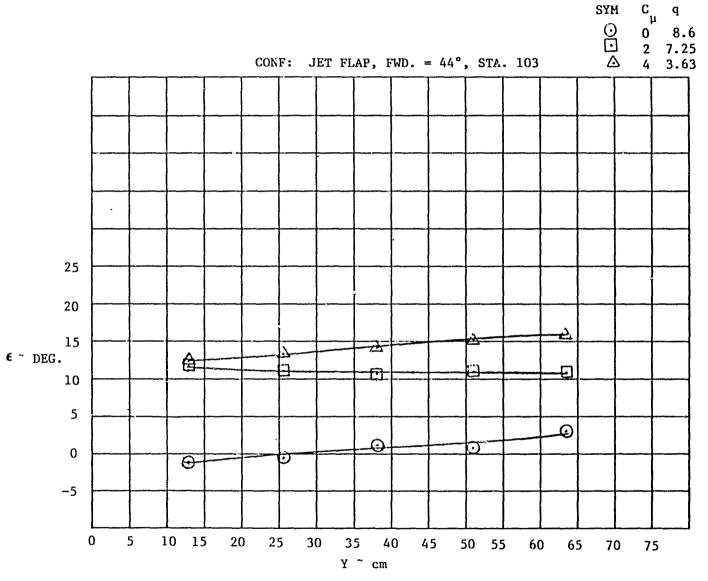


Figure B-9 a. Jet Flap, $\theta = 40^{\circ}$, Sta. 103

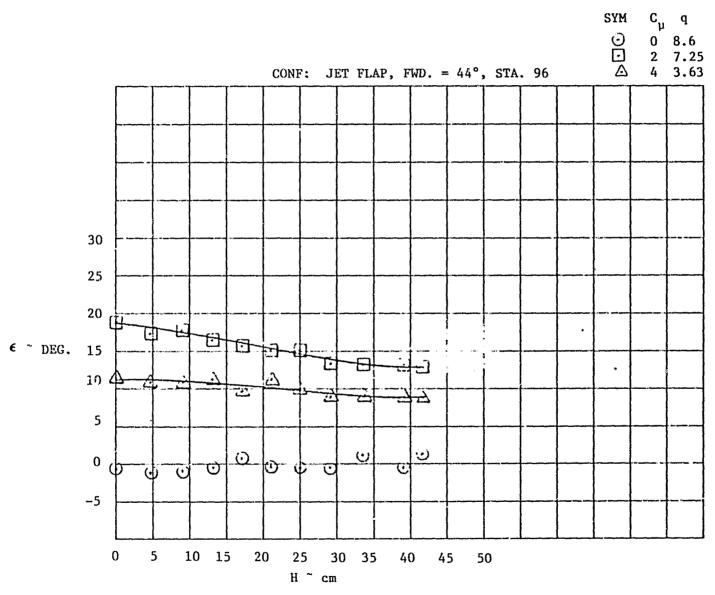


Figure B-9 b. Jet Flap, $\theta = 40^{\circ}$, Sta. 103

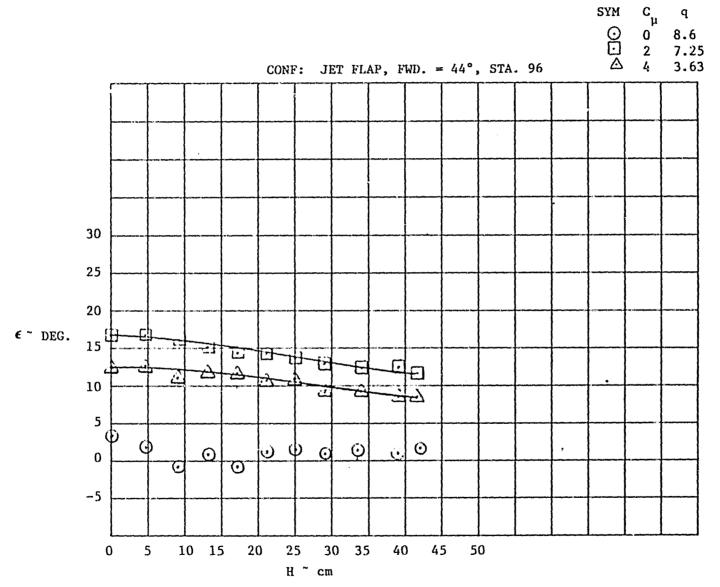


Figure B-9 c. Jet Flap, $\theta = 40^{\circ}$, Sta. 103

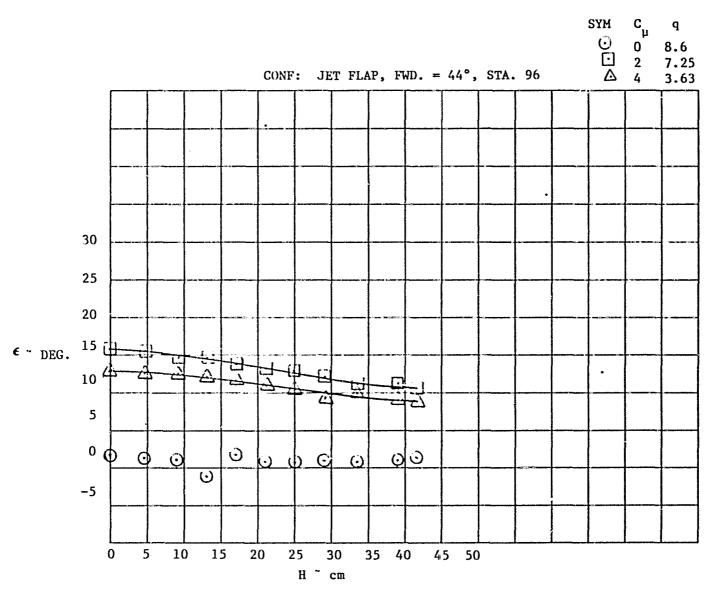
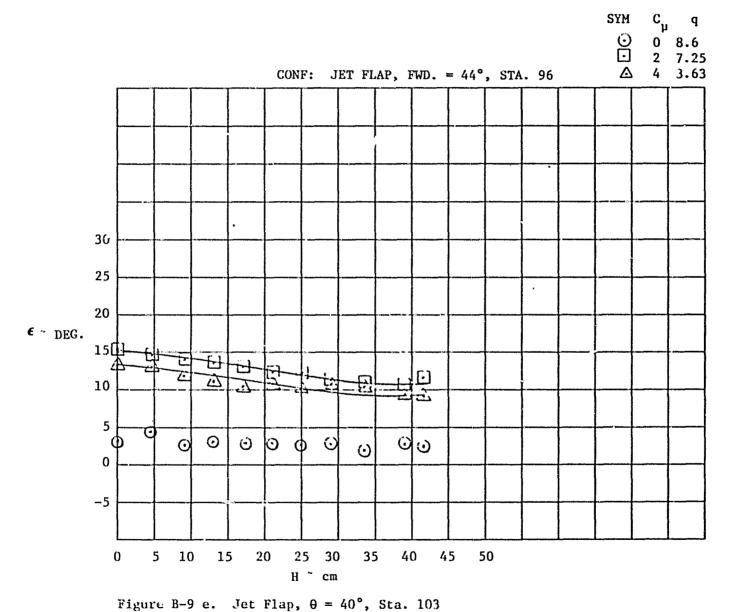


Figure B-9 d. Jet Flap, $\theta = 40^{\circ}$, Sta. 103



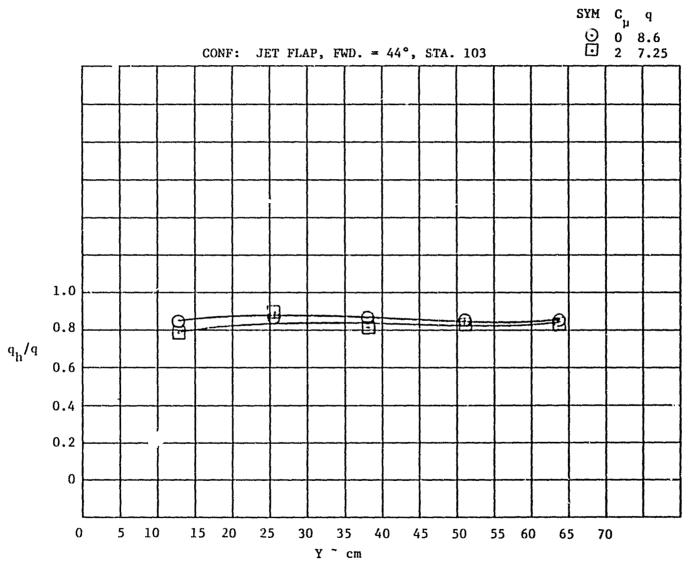


Figure B-9 f. Jet Flap, $\theta = 40^{\circ}$, 7ta. 103

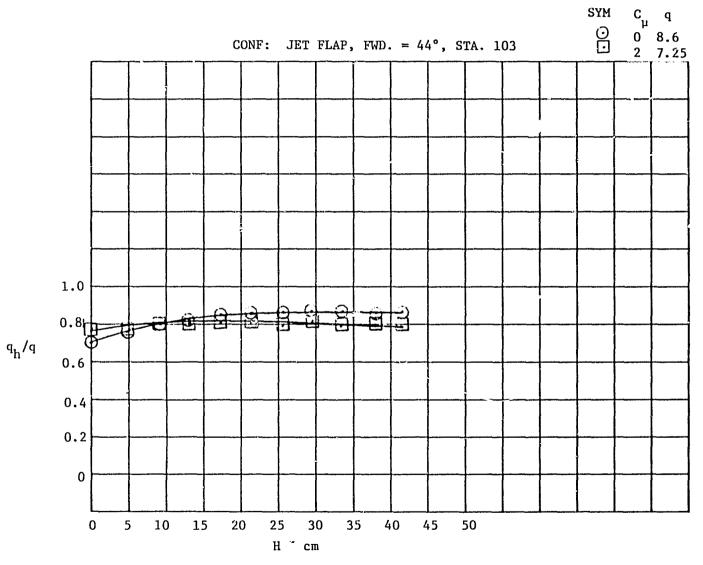


Figure B-9 g. Jet Flap, $\theta = 40^{\circ}$, Sta. 103

A STUDY OF A VTOL THRUSTING EJECTOR IN LOW SPEED FLIGHT

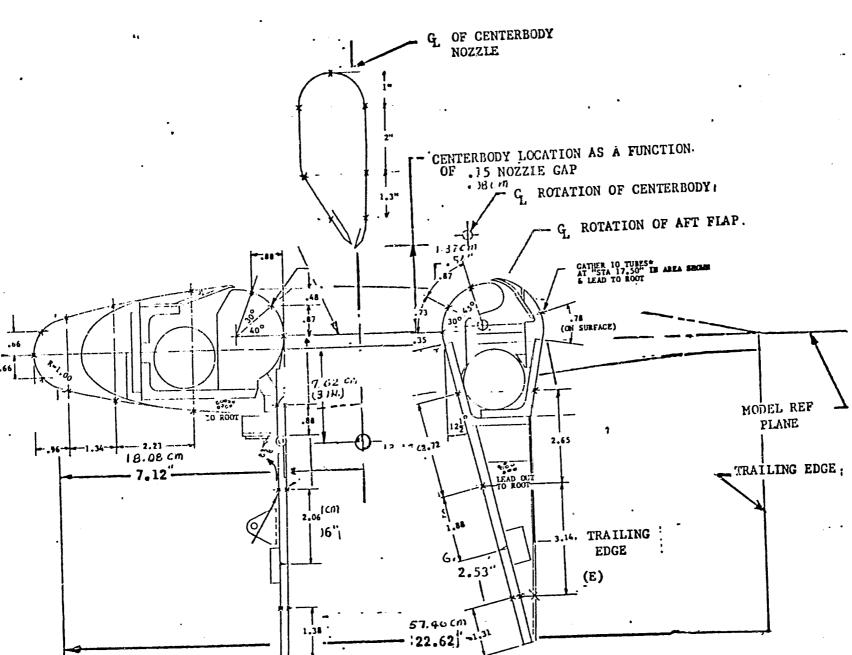
Vearl R. Stewart Rockwell International North American Aircraft Division

APPENDIX C - TABULATED DATA

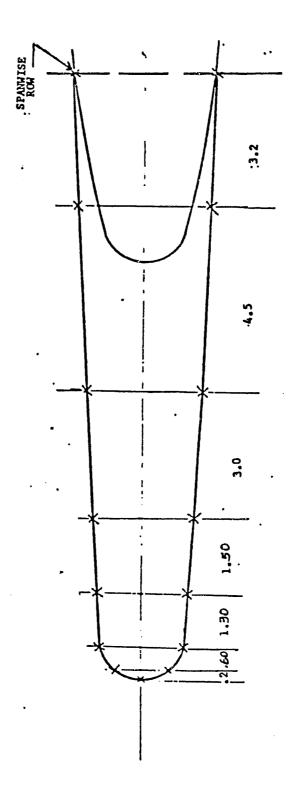
APPENDIX C

TABULATED DATA

Appendix C presents tabulated test results of the summarized force data and selected tabulated pressure data. A run schedule is presented to identify the data. The pressures are tabulated in pounds per square inch referenced to atmosphere. The test section is not vented to atmosphere and therefore the test section static pressure is greater than the atmosphere reference. Figure C-1 presents the incremental test section pressure over reference. Figure C-2 and C-3 present the location of the pressure astrumentation.



MIEN



Extended Nose Surface Pressure Installation

PRINTOUT IDENTIFICATION

P _T N _o	Data Point	
ALPHA N	Angle of Attack	degrees
Q_{H}	Dynamic pressure	lbs/ft²
CL H	Lift coefficient	
CD H	Drag coefficient	
СМ Н	Pitching Moment Coefficient	
YM	Model Yawing Moment	
RL	Model Rolling Moment	
PTPHCH	Nozzle pressure ratio	

PHI Augmentation ratio used in calculations

Used in calculations

THETA Tan normal force axial force

THRUST $\sqrt{N^2 + A^2}$

PTPCBH

PTPACH

WFT Total nozzle weight flow

THTH Total nozzle thrust

CDR Used in calculations

CDHR Used in calculations

RUN SCHEDULE

RUN	CONFIGURATION	NOMINAL THRUST ANGLE	DIFFUSER ANGLE	NOMINAL C _µ	PAGE
17	AUGMENTER 1	40°	16°	0	171
18	11	11	H	1	176
19	; 1	tf .	íI	2	181
20	11	11	11	4	186
23	11	**	8 ⁰	0	191
24	11	11	11	1 2	196
25	11	11	11		201
26	11	11	11	4	206
28	**	"	0	0	211
29	11	11	11	1 2	216
30	11 11	11 11	11		221
31		11)1 11	4	226
33	AUGMENTER 2	11	!!	0	231
34	 11	11	11	1	236
35	11	11	11	2	241
36		11	,, 80	4	246
38	11	11	80	0	251
39	11	"	11	1	256
40	"		 ff	2	261
41	11		16°	4	267
43	n	11	10.	0	273
44	11	11	11	1	278
45	11	11	**	2 4	283
46					288
50	JET FLAP 2	40	↔	0	293
51 52	11	11		1 2	298
52 53	11	t1	-	2 4	303
55	JET FLAP 1	40	o m	0	308 313
56	II DET LTWL T	11	-		318
57	11	11	-	1 2	323
58	11	††	_	4	323
60	11	30	_	0	334
61	11	11	_	1	339
62	ti	11		2	344
63	11	11	-	4	349
71	AUGMENTER 1	30°	16 ⁰	o O	354
72	11	11	11	1	359
73	ff	11	11	ī	364
74	ff	11	11	0	369
75	11	11	11	1	374
76	11	11	11	2	380
77	11	11	11	4	385
78	AUGMENTER 2	tt .	11	0	390
79	tt	11	11	1	395
80	51	11	11	2	400
81	11	11	11	4	406
84	11	11	8°	0	411
85	11	. "	11	1	416
86	11	11	tī	2	421
87	11	11	11	4	425
88	11	11	11	4	430

RUN	CONFIGURATION	NOMINAL THRUST ANGLE	DIFFUSER ANGLE	NOMINAL Cu	PAGE
8 9	AUGMENTER 1	30°	16°	0	435
90	11	T I	13	0	440
91	11	11	11	1	445
92	Ħ	11	11	2	450
93	II .	11	11	4	455
95	11	11	00	0	460
96	17	\$1	11	1	465
97	ff	ff	11	2	470
98	lt .	11	11	4	476
99	AUGMENTER 2	ti	TT .	0	485
100	11	11	11	1	490
101	tt	T 8	11	2	495
102	16	11	11	1	500
103	f1	Ħ	11	2	506
104	11	**	11	4	511
106	AUGMENTER 1	11	11	1	516
107	11	11	11	2	521
108	14	11	11	4	526
110	† #	t e	16 ⁰	-	531
133	CLEAN WING CONF	. 1 -	-		532
134	" " CONF	. 2 -	es)	-	537

NOTE: Data for each run consists of summary page and pressure data for four selected angles of attack. Pressures are in pounds per square inch referenced to atmospheric pressure. Therefore:

$$c_{p} = \frac{\left(p + P_{a} - P_{T_{S}}\right)144}{q}$$

MACAL 292 RUN 17 DATE 06 DCT 80 TIME 12.14 RECOMP. NO. 2 DISK 1 PAGE 22

JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 30 JUN 80 22.46

MOD 11 ALPHA WIND ON RUN.C/B=70 DEG.FWD=66 DEG.AFT=34 DEG.MEAN=50 DEG.CMU=0 PTS 15.00 14.257

SUMMARY PAGE

PT	MD	ALPHA H	O H	CLH	CDH	СМН	YM	RI.	PTPFCH	PTPCBH	PTPACI
		РИІ	THETA	THRUST	DELAL	WFT	THTH	CMUTH	CDR	CDHR	
	1	-3.5816	15.1970	0.5008	0.5888	0.1074	-1211.4859	1985.3749	0.9849	0.9945	0.994
		1.4000	40.2832	112,5983	0.2232	0.2255	0.7038	0.0049	0.0331	0.5556	
	2	-7.5211	15.1517	0.3907	0.5654	0.0186	-1280.7994	1606.5046	0.9850	0.9950	િ•લવર્
		1.4000	34.6456	98.0472	0.1701	0.2092	0.6454	0.0045	0.0308	0.5346	
	3	-11.0467	15.0674	0.2850	0.5339	-0.0681	-1221.6023	1172.4611	0.9844	0.9947	0.993
		1.4000	28.0964	85.8531	0.1196	0.0547	0.1888	0.0013	0.0080	0.5258	
	4	0.3234	14.9690	0.5784	0.5934	0.1640	-1088.5342	2317.7770	0.9850	0.9949	0.994
171		1.4000	44.2638	116.7867	0.2607	0.0910	0.3871	0.0027	0.0135	0.5769	
	5	0.6965	14.8043	0.5622	0.5893	0.1907	-1010.3020	2282.2273	0.9854	0.9952	0.904
		1.4000	42.6530	113.5263	0.2529	0.2449	0.9076	0.0065	0.0365	0.5528	
	6	4.1258	14.8684	0.6375	0.5980	0.2366	-952.0118	2634.7898	0,9858	0.9945	0.993
		1.4000	46.8324	122.3615	0.2893	0.2867	0.9775	0.0069	0.0426	0.5553	
	7	8.0507	14.9233	0.7190	0.6170	0.3228	-871.5255	2951.3882	0.9886	0.9953	0.994
		1.4000	49.3642	133.1108	0.3288	0.3334	1.0899	0.0077	0.0495	0.5674	
	8	11.8247	14.8282	0.8388	0.64 93	0.3945	-822.4338	3130.8513	0.9911	0.9955	0.994
		1.4000	52.2561	148.0753	0.3872	0.1969	0.6014	0.0043	0.0293	0.4199	
	9	15.7423	14.6754	0.9235	0.6647	0,4436	-666.5827	3128,4680	0.9942	0.4961	0.995
		1.4000	54.2517	157,2061	0.4286	0.0000	0.0045	0.0000	0.0000	0.6647	
•	10	19.5621	14.7987	0.8606	0.6688	0.4395	-607.1560	2785.5846	0.9944	0.9952	0.994
		1.4000	52.1471	151.8508	0.3980	0.1653	0.4963	0.0035	0.0246	0.6441	

```
VACAL 292 RUN 17 DATE 06 OCT 80 TIME 12.12 RECOMP. NO. 2 DISK 1
JOB NO. 11 LDGR ACCT 31302
                                                                               PAGE 8
                              CONTRACT 1631 SUB ACCT 10001 ACO DATE 30 JUN 80 22.36
 MOD 11 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=0
DATA POINT 4
                                          0.5380
                                       0.8476 0.7035
                                      0.6270 0.6804
            0.7204 0.7066
                                       0.6581
                                              0.6832
          0.6661
                       0.6030
         0.6736
                                                    0.6629 0.6702
         0.8384
                        0.6299
         0.8401
                                                          0.6567
          0.8213
                          0.6567
            0.8189 0.8248
                                                         0.5724
                                                                      0.6773
                        0.8329
                               0.6462
                          0.8276
                                 0.6329
                         0.7994 0.6434
                                                                    0.6885
            0.7466 0.7141 0.7154 0.7035 0.7066 0.7472 0.7116 0.7416 0.7422
     0.6099
```

```
NACAL 292
              RUN 17
                            DATE 06 OCT 80
                                                TIME 12.13
                                                                RECOMP. NO. 2
                                                                                    DISK 1
                                                                                                  PAGE 14
JOB NO. 11
                  LDGR. ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                 ACQ DATE 30 JUN 80 22.41
 MOD 11 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN =50 DEG, CMU=0
DATA POINT 7
                                                     0.6753
                                                0.8449
                                                          0.6913
                                                0.6527
                                                         0.6841
                0.6604 0.6885
                                                 0.6719
                                                          0.6784
             0.5524
                             0.6267
                                                                          0.6867
                                                                                     0.6742
            0.4675
           0.7285
                               0.6542
                                                                        0.6405
            0.8356
             0.8398
                                 0.6592
                                                                       0.6161
                                                                                        0.6749
                0.8313 0.8281
                              0.8324
                                       0.6498
                                                                           0.5439
                                                                                          0.6803
                                 0.8318
                                          0.6492
                                                                                            0.6821
                                    0.8096
                                             0.6411
                                                                                      0.6891
       0.6398
                0.7472
                         0.6629
                                  0.6792
                                           0.6879
                                                    0.6804
                                                             0.7404
                                                                      0.6979
                                                                               0.7441
                                                                                       0.7391
```

JOB NO MOD :	• 11 LDGR 11 ALPHA WIND ON	DATE 06 DCT 80 ACCT 31302 CONTRACT N RUN, C/B=70 DEG, FWD=66	TIME 12 1631 DEG •AFT=34	SIIR ACET SA	COMP. NO. 2 0001 DEG.CMU=0	DISK 1 PAGE 16 ACO DATE 30 JUN 80 22.42
WHAT I FAME SAME A	···	· · · · · · · · · · · · · · · · · · ·	0.6	722		
			0.8418	0.6880	· • • • • • • • • • • • • • • • • • • •	₩.
•			0,6468	0.6693		
Annels de anglo de . ago ,	0.5912 0.5025	0.6679 0.6467	0.6592	0.6710		
al L	0.4650 0.6698 0.8123 0.8417	0.6492	r Marce in agr	4	0.6842 0.7279	0.6666
174	0.8344	0.6492 0.8299			0.6086	0.6759
		0.8364 0.6427	• •		0.6569	
		0.8336 0.666	09			0 _• 6758
■ * •		0.8171 0.	6660			0.6798 0.6934
	0.6604 0.7391	0.6292 0.6467 0.66	0.6642	0.7360	0.6779 0.73	66 0.7335

ı

NACAL 2	92 RUN 17	DATE O6 OCT 80	TIME 12.	,14 RE	COMP.	NO.	2	DISK	1	P.	AGE 20
	·	CCT 31302 CONTRACT	1631 \$	SUB ACCT 1	0001			ACO DA	re 30 .	JUN 80	22.45
JOB NO.						CHI.	-0				
MOD 11	L ALPHA WIND ON F	RUN, C/B=70 DEG, FWD=66	DEG AFT=34 [)EG +MEAN=5	O DEG	16 MU=	.0				
DATA POI	INT 10		•		•						
			0.60	511							
gas an entrett v ··			0.6518	0.6806							
			0.6363	0.6750							
grant to			0 4503	0 4473							
	0.6511 0.6461	0.6392 0.6505	0.6533	0.6673		0	.6729	0.	6659		
gaven on a less	0.6011 0.6767	0.6504				0.6	786				
Merce Co.	0.7846 0.8423	0.6792				0.67	11		0.669	7	
175	0.8387	0.8346									
LA Grande de la Co		0.8372 0.673	0	•	. •		0.662	5	0.	6820	
t gyan - archystale 8 50 - 5		0,8384 0.	6741	-				0.6671			
, • · · · · · · · · · ·		0.8226	0.6769		. · · · • •3			(0,6662	0.679	8
-	0.6823 0.7454	0.6530 0.6530 0	.6542 0.64	+98 0 ₊ 74	+16	0.646	.7 C	.7416	0.73	97	

NACAL	292 RU	N 18	DATE 06	DCT 80 TII	MF 12.2	4 RECOMI	P. NO. 2	DISK	1	PAGE 22
JOB NO.	. 11	LDGR ACCT	31302	CONTRACT 163	เ รบ	B ACCT 1000	1	ACO DATE	30 JUN 8	0 23.19
MOD 12	2 ALPHA W	IND ON RUN	C/B=70 DE	G,FWD=66 DEG,A	FT=34 DE	G.MEAN=50 DI	EG•CMU=1 P _{Ts}	PA		
						•		6 .05 14.282		
				SUMI	MARY PAGI	- -	13.	.05 1,1202		
PT NO	ALPHA H PHI	O H THETA	CLH THRUST	C DH D EL A L	CMH WFT	Y M T HTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
· 1	1.6495 1.4000	14.8488 80.3227	3.6538 518.1396	0.6230 - 1.6856	0.5596 5.3353	-851.0695 124.0404	15017.4960 0.8873	1.3619 0.7925	1.5657 -0.1694	
2	-2.3143 1.4000	14.8535 82.6682	3.4020 479.6397	0.4377 1.5579	0.6000 5.3262	-1122.0273 124.0477	14154.4035 0.8871	1.3628 0.7913	1.3655 -0.3536	
3	-6.2618 1.4000	14.8374 85.4252	3.1509 441.5310	0.2521 1.4289	0.5340 5.3329	-1166.8897 124.2033	13050.9448 0.8892	1.3630 0.7932	1.2657 -0.5411	1.3650
176	-9.8509 1.4000	14.9045 88.6827	2.7920 391.8543	0.0642 1.2560	0.4546 5.3327		11906.7558 0.8864	1.3629 0.7918	1.3663 -0.7276	
5	1.7011 1.4000	14.8786 79.9953	3.5958 511.4317	0 •6343· 1 •6659	0 •6044 5 •3255	-955.6823 124.1359	15050.1909 0.8862	1.3627 0.7918	1.3651 -0.1575	
6	5.6416 1.4000	14.7301 78.1571	3.7931 537.4285	0.7953 1.7733	0.6162 5.3277		15729.7598 0.8964	1.3630 0.7969	1.3653 -0.0015	1.3639
7	9.5222 1.4000	14.6176 76.6857	3.8757 548.0776	0.9172 1.8269	0.6482 5.3238	-562.1364 124.4830	16091.3562 0.9046	1.3605 0.8004	1.2673 0.1167	1.3656
8	13.3342 1.4000	14.6904 74.8671	4.0073 574.1096	1.0837 1.9098	0.6540 5.3286	-184.2758 124.8635	16375.6909 0.9028	1.3638 0.7996	1.3674 0.2840	
ů	17.1033 1.4000	14.7236 74.8300	3.8760 556.6452	1.0509 1.8473	0.6911 5.3020	642.9016 174.2223	15847.2677 0.8962	1.3649 0.7951	1.3677 0.2557	1.3633
10	20.9471 1.4000	14.6422 73.4191	3.8989 560.7637	1.1609 1.8748	0.6798 5.2698	1075.8422 123.3881	15383.4507 0.8951	1.3615 0.7931	1.3635 0.3677	1.3691

```
RECOMP. NO. 2 DISK 1
                                                                                 PAGE 10
NACAL 292 RUN 18 DATE 06 OCT 80 TIME 12.22
                                              SUB ACCT 10001 ACQ DATE 30 JUN 80 23.10
                               CONTRACT 1631
         LDGR ACCT 31302
JOB NO. 11
MOD 12 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1
DATA POINT 5
                                           -0.3297
                                        0.7587 0.1782
                                   -0.0960 0.2376
                                        0.2859
                                                0.2594
              0.4014 0.3310
                                                        -0.3737 0.2899 .
           0.1539
                       -1.4301
          -0.1770
                                                          -0-1164
          0.3983
                        -1.4424
          0.7593
                           0.1290
                                                          -0.0612
                                                                      0.6116
           0.8777
              0.8801 0.8772
                                                              0.5801
                         0.8792 0.3735
                                                                            0.6762
                                                                   0.6824
                            0.8767
                                   0.5093
                                                                             0.7663
                                                                        0.7429
                              0.8732 0.7062
                     0.3989 0.4014 0.3241 0.3378 0.7704 0.3497 0.7767 0.7704
      0.9425
```

- ----

```
NACAL 292 RUN 18 DATE 06 OCT 80 TIME 12.22 RECOMP. NO. 2 DISK 1 PAGE 14
JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 30 JUN 80 23.13
MOD 12 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1
DATA POINT 7
                                       -0.2898
                                    0.8160 0.4477
                                 -0.0649 0.2019
            0.3590 0.2967
                                    0.3116 0.2963
          0.0024
                     -1.4497
                                                 -0.2218
        -0.6013
                                                                0.2082
        0.0629
                     -1.3811
                                                     -0.7138
         0.5855
         0.8492
                       0.1907
                                                     -0.2622
           0.8812 0.8804
                                                                 0.6767
                      0.8817 0.3772
                                                        0.5246
                                                                     0.6762
                0.8781 0.5055
               0.8772 0.6848
                                                                      0.7017
                                                                 0.7117
    0.8745 0.7679 0.3440 0.3814 0.2842 0.2942 0.7729 0.3035 0.7710
                                                                  0.7661
```

```
NACAL 292 RUN 18 DATE 06 OCT 80 TIME 12.23 RECOMP. NO. 2 DISK 1
                                                                                        PAGE 16
                                                  SUB ACCT 10001 ACQ DATE 30 JUN 80 23.15
JOB NO. 11 LDGR ACCT 31302
                                 CONTRACT 1631
MOD 12 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1
DATA POINT 8
                                               -0.0998
                                           0.8417
                                                    0.5538
                                          -0.0181
                                                    0.2275
               0.3166 0.3029
                                            0.3403
                                                    0.5035
                        -1.4105
                                                                  -0.2144
           -0.0900
                                                                            -0.0405
          -0.7555
                           -1.3419
                                                                -0.8958
         -0.1047
           0.4825
                              0.2805
                                                               -0.1654
            0.8356
                                                                               0,7032
               0.8777 0.8829
                           0.8852
                                   0.4032
                                                                    0.5497
                                                                                  0.5662
                              0.8817
                                      0.5384
                                                                        0.6923
                                                                                    0.6963
                                 9.8838
                                         0.7025
                       0.3054 0.3615 0.2755 0.2830 0.7735 0.2929
       0.8415
               0.7754
                                                                       0.7735
                                                                               0.7723
```

```
RUN 18 DATE 06 DCT 80 TIME 12.24 RECOMP. NO. 2 DISK 1 PAGE 20
 NACAL 292
JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 30 JUN 80 23.18
MOD 12 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1
DATA POINT 10
                                             0.1517
                                         0.8557 0.6484
                                         0.1059 0.6094
              0.0498 0.4120
                                         0.4642 0.5887
            0.0224
                        -0.8038
                                                           -0.2395
                                                                       0.2949
          -0.7402
         -0.3388
                        -0.8517
                                                          -0.6642
           0.3465
            0.7936
                            0.4999
                                                          -0.1188
                                                                       0,6329
              0.8750 0.8874
                                                            0.6031
                          0.8868 0.5028
                                                                            0.6575
                            0.8837 0.5589
                                                                   0.7590
                                                                             0.6816
                              0.8858 0.8003
                                                                       0.7504
       0.7935 0.7760 0.1271 0.2867 0.2780
                                           0.2954 0.7816 0.3004
                                                                 0.7767 0.7673
```

NΔ	CAL	292 R	UN 19	DATE 06	NCT 80	TIME 12.3	5 RECOM	P. NO. 1	DISK	1 P	AGF 22
Jo	B NO.	. 11	LDGR ACCT	31302	CONTRACT	1631 SU	B ACCT 1000	1	ACQ DATE	1 JUL 80	0.22
M	100 13	ALPHA I	WIND ON REN.	.C/R=70 DE	6- EMD≖66 DI	EG•AFT≃34 DE	C-MEAN-EO D	EC.CMIL-2		PA	
				10 0 DE	O71110-00 D1	LOYAI 1-34 DE	OFMERIA-50 D	EG CHU-2	S		
						6114114401	. مو		14.64	14.252	
						SUMMARY PAG	E				
PT	NO	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAI	**	YM THTH	R L CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
		2 5010				·				Com	
	1	2.2940 1.4000	14.6824 -89.8709	5.2097 720.0895				21184.8582		1.8969	1.9088
		7	03.0193	120 •00 93	2 •2 51 3	0 4 2 8 4 6	266 •0166	1.9245	1.2397	-1.2514	
	2	-1.4957	14.6898	4.7318	-0.2889	9 0.8884	2081.4183	19773.6653	1.8980	1.9029	1.9010
		1.4000	-86.5052	655.5842	2.0111	8,2762				-1.5319	
	3	-5.6308	14.8635	4.2010	-0.5423	3 0.7798	2024 4064	18165.3109	1.8966	1,9046	1.8988
		1.4000	-82.6436	592.7125	1.775	8.2732				-1.7786	2000
	4	-9.2407	14.9095	3,7796	-0.755	0.6902	2138.0147	16820.5629	1.8984	1.9051	1.9018
181		1.4000	-78.7008	540.9905	1.5896		· ·		1.2332	-1.0894	14.019
	5	2.5556	14.6691	5.1847	-0.0308	8 0.9885	2137.4507	21234.7401	1.9011	1.9054	1.9009
		1.4000	-89.6593	715.9998	2.2191					-1.2755	1 - 71117
	6	6.6844	14.5352	5.6251	0.2821	1.0720	2120.0452	22704.5432	1.8963	1.9034	1.9001
		1.4000	87.1289	770.6812	2.432	8.2562				-0.6680	
	7	10.7406	14.1947	6.0645	0.584	1.1440	2349.6161	23864.5550	1.9026	1.9034	1.9007
		1.4000	84.4983	F14.1493						-0.6823	20,000
	8	14.6555	14.2094	6.3675	0.9479	9 1.2102	2614.8676	25238.9881	1.9022	1.9023	1.9025
		1.4000	81.5328	867.2166	2.8251				1.2604	-0.3125	
	9	18.5760	14.3103	6.4681	1 .27 08	3 1.1866	2974.9793	25627.2834	1.8956	1.9036	1.9039
		1.4000	78.8842	0950.888	2.9266					0.0110	
	10	22.5098	14.4258	6.5824	1.6371	1.1916	3209,5093	26315.7322	1.8937	1.9034	1.9036
		1.4000	76.0332	921.1637	3.0474				1.2526	0.3844	

NACAL 292 RUN 1	DATE 06 DCT 80	TIME 12.31	RECOMP. NO. 1	DISK 1 PAGE 2
	ACCT 31302 CONTRACT			ACQ DATE 30 JUN 80 23.59
MOD 13 ALPHA WIND	DN RUN, C/B=70 DEG, FWD=66 D	DEG .AFT =34 DEG .ME.	N=50 DEG;CMU=2	
DATA POINT 1			•	
		-1.1121		
The second section of the second seco	garage and the second of the s	0.7744 -0.231	10	•
		-0.7378 -0.35	55	
0.20 -0.1360	38 0.0573 -3.1416	~0.0784 -0.22	76 -1.9071	. 0.8474
-0.6794 0.0772	-3.3181		-3.1012	
0,6441 0,8606	0.1202 68 0.8849	government of the second secon	-2.0511	0.7759
18 0.88	0.8855 0.0636		0.322	5 0•7537
	0.8844 0.1	882		0.6546
w · ·	0.8804	0.5730	ne e	0.7815 0.7316
0.6544 0.7	759 0.1801 0.2050 0.	0560 0.0673 0	.7902 0.0847 0	.7834 0.7902

••

e de la companya de

```
NACAL 292
          RUN 19 DATE 06 OCT 80 TIME 12.33
                                                         RECOMP. NO. 1
                                                                           DISK 1
                                                                                        PAGE 14
JOB NO. 11
            LDGR ACCT 31302
                                 CONTRACT 1631
                                                  SUB ACCT 10001 ACQ DATE 1 JUL 80 0.17
MOD 13 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=2
DATA POINT 7
                                               -1.2186
                                           0.7923
                                                  -0.2861
                                          -0.6487 -0.3840
               0.0492 -0.0171
                                           -0.0374 -0.2919
           -0.4478
                         -3.1202
                                                             -1.7282
                                                                            0.8359
          -1,4519
         -0.5244
                           -3.1478
                                                               -2.6552
           0.3373
            0.7895
                              0.2293
                                                              -1.7570
                                                                              0.7472
              0.8596 0.8696
                           0.8742
                                   0.1279
                                                                   0.3327
                                                                                 0.7287
                             0.8742
                                     0.2488
                                                                                   0.7572
                                0.8741 0.5876
                                                                             0.7118
              0.7472 0.0548 0.0997 -0.0245 -0.0257 0.7609 -0.0122 0.7497
      0.1545
                                                                             0.7591
```

```
PAGE 16
                                                            RECOMP. NO. 1
                                                                              DISK 1
           RUN 19 DATE 06 NCT 80
                                             TIME 12.34
VACAL 292
                                                                            ACO DATE 1 JUL 80 0.18
                                   CONTRACT 1631
                                                    SUB ACCT 10001
                LDGR ACCT 31302
JOB NO. 11
MOD 13 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=2
DATA POINT 8
                                                 -1.1864
                                             0.8158
                                                     -0.1340
                                            -0.5708 -0.2363
                                              0.0057 -0.3215
              -0.0012 -0.0416
                                                                     -1.5781
                                                                                0.8616
                          -3.0975
            -0.5734
           -1.8593
                                                                   -2.2128
                            -3.1061
          -0.8846
            0.1577
                                                                  -1.5009
                                                                                  0.7729
                               0.2792
             0.7512
               0.8585 0.8818
                                                                       0.4004
                            0.8843
                                     0.1526
                                                                                     0.7443
                                                                           0.6503
                                        0.2672
                               0.8826
                                                                                       0.7715
                                                                                 0.7282
                                  0.8860 0.6097
               0.7647 -0.0343 0.0760 -0.0416 -0.0588 0.7784 -0.0202 0.7622 0.7641
```

```
NACAL 292
             RUN 19 DATE 06 OCT 80
                                             TIME 12.34 RECOMP. NO. 1
                                                                               DISK 1
                                                                                            PAGE 20
JOB NO. 11
                LDGR ACCT 31302
                                   CONTRACT 1631
                                                     SUB ACCT 10001 ACQ DATE 1 JUL 80 0.21
MOD 13 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=2
DATA POINT 10
                                                 -0.5142
                                             0.8092
                                                      0.0630
                                            -0.4187
                                                      -0.1433
              -0.5697 -0.0722
                                              0.1132
                                                      0.1917
           -0.5538
                           -1.7950
                                                                    -1.1726
                                                                               0.0663
          -0.9115
          -1.2902
                            -2.1326
                                                                  -1.8220
          -0.1142
             0.6664
                               0.4761
                                                                  -1.1738
                                                                                  0.8042
               0.8347 0.8843
                            0.8914
                                     0.2318
                                                                      0.5166
                                                                                     0.7681
                               0.8883
                                       0.3865
                                                                           0.7446
                                                                                       0.7931
                                 0.8909
                                          0.7205
                                                                                0.7863
      -0.3136
             0.7659 -0.2346 -0.2658 -0.1421 -0.0808
                                                         0.7778 -0
                                                                          0.7697
```

NAC	CAL	292 R	บท	20	DATE	13	OCT 80	TIME	00.12	RECOME	P. NO. 1	DISK	ı	PAGE 22
JOI	3 NO.	. 11	L	DGR ACC	T 31302		CONTRACT	1631	SUB	ACCT 10001	1	ACO DATE	1 JUL 8	0 18.46
M	30 1	4 АСРНА	MIN	D ON RU	N,C/B=70 (DEG	•FWD≖66 DI	EG ,AFT	=34 DFG	,MEAN≖50 DE	EG•CMU=4	P P TS 14.26 14	A . 267	
								SUMMAI	RY PAGE					
PT	NO	ALPHA H PHI	i	Ω H THETA	CLH THRU:		CDH DELAI		CMH WFT	ҮМ ТНТН	RL CMUTH	PTPFCH CDR	РТРСВН СОНР	РТРАСН
	1	2.7858 1.4000		7.3233 78.3583	7•45 524•68		-1 .535° 2 .7966		1.3480 8.2347	4791.3858 271.7478	15453.9802 3.9417		1.4501 -3.3169	
	2	-1.3988 1.4000		7.5942 74.0559	6.55° 487.40		-1 .872° 2 .463°		1.1684 8.2396	4733.2952 272.4742	14512.1161 3.8112	1.9517 1.7519		
	3	-5.4823 1.4000		7.7136 69.2191	5.844 453.67		-2 .2 063 2 .191		1.0270 8.2161	4614.5423 271.6713	13667.8877 3.7411	1.9471 1.7349	1.6514 -3.9413	
186	4	-9.2539 1.4000		7.8332 64.2278	5•140 420•91		-2 .4817 1 .928		0.8745 8.2149	4670.6289 272.1694	12791.5216 3.6908	1.9512 1.7229	1.4542 -4.2047	
-	5	2.8684 1.4000		7.3572 78.2280	7.38° 522.46		-1.5260 2.7760		1.3250 8.1976	4732.4793 271.9474	15453.6948 3.9264	1.9506 1.7771		
	6	6.9840 1.4000		7.2873 82.4697	8.03 556.11		-1.0623 3.0475		1.4428 8.1902	4735.6092 272.0289	16403.7991 3.9652	1.9491 1.7861		
	7	11.0069 1.4000		7.3567 86.3935	8.52 591.74		-0.5374 3.2821		1.5428 8.1840	4722.9930 271.7205	17285.4369 3.9263	1.9499 1.7768	1.5493 -2.3142	
	8	15.0933 1.4000		7.1948 89.7332	9.22 625.04		0.0429 3.595		1.6732 8.1895	4745.7362 272.2789	18137.7676 4.0199	1.9520 1.7989	1.9492 -1.7560	
	9	19.3163 1.4000		7.0373 86.0113	9.85 654.48		0.687) 3.903		1.7675 8.1781	4774.6722 272.1640	18854.2755 4.1081	1.9525 1.8178	1.9482 -1.1306	

1.7000 4885.2519 19569.7794 8.1779 272.2292 3.9204

23.1476

7.3760

82.8911

9.7906

685.1128

1.2210

3.9953

14

1

1.7756 -0.5546

1.9500

1.9512

```
NACAL 292 RUN 20 DATE 13 DCT 80 TIME 00.08 RECOMP. NO. 1 DISK 1 PAGE 2
JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 1 JUL 80 18.15
MOD 14 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=4
DATA POINT 1
                                            -0.8440
                                         0.2380 -0.3408
                                     -1.3240 -0.3906
             -0.0386 -0.2268
                                         -0.5466 -0.1699
           -0.2686
                       -3,5690
                                                           -2.1843
                                                                       0.4298
          -0.6408
         -0.1208
                        -3.8137
                                                           -4.0118
           0.2582
            0.4185
                           -0.3992
                                                           -2.8589
                                                                  0.3895
              0.4443 0.4462
                          0.4448 -0.4289
                                                              -0.2420
                                                                            0.3768
                            0.4439 -0.3059
                                                                   0.2010
                                                                              0.3887
                               0.4422 0.1364
                                                                        0.3123
      -0.0049 0.3817 -0.1140 -0.1017 -0.2268 -0.2060 0.3905 -0.1778 0.3805 0.3899
```

ı

```
NACAL 292 RUN 20 DATE 13 DCT 80 TIME 00.10 RECOMP. NO. 1
                                                                        DISK I
                                                                                    PAGE 14
JOB NO. 11 LDGR ACCT 31302
                                CONTRACT 1631 SUB ACCT 10001 ACO DATE 1 JUL 80 18.41
 MOD 14 ALPHA WIND ON RUN, C/B=70 DEG, FWG=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=4
DATA POINT 7
                                            -0.9160
                                         0.2877 -0.3784
                                        -1.2027 . -0.4276
            -0.1422 -0.2796
                                         -0.5065 -0.2212
          -0.4820
                        -3.4905
                                                            -2,1849
         -1.1277
                                                                        0.4295
         -0.5249
                         -3.6340
          0.0465
                                                           -3.8051
           0.3769
                           -0.2882
                                                           -2.7031
             0.4255 0.4440
                                                                         0.3840
                         0.4426 -0.3639
                                                              -0.1863
                                                                             0.3740
                          0.4431 -0.2466
                                                                    0.2293
                            0.4437 0.1573
                                                                              0.3845
                                                                         0.3184
    -0.0355 0.3805 -0.1827 -0.1533 -0.2820 -0.2722 0.3830 -0.2219
                                                                  0.3811 0.3924
```

```
PAGE 16
                     DATE 13 OCT 80 TIME 00.11 RECOMP. NO. 1
                                                                         DISK 1
           RUN 20
NACAL 292
                                                   SUB ACCT 10001 ACQ DATE 1 JUL 80 18.41
                                  CONTRACT 1631
                LDGR ACCT 31302
JOB NO. 31
MOD 14 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=4
DATA POINT 8
                                                -0.9571
                                                    -0.3942
                                            0.3052
                                                   -0.4623
                                            -1.1607
                                             -0.4729 -0.2368
               -0.2005 -0.2943
                                                                   -2.1825 0.4293
                           -3.4648
            -0.5850
           -1.3908
                                                                 -3.7236
                             -3.5948
           -0.7542
            -0.0766
                                                                                0.3854
                                                                 -2.6001
                               -0.2624
             0.3437
                0.4273 0.4403
                                                                     -0.1670
                             0.4477 -0.3523
                                                                                    0.3714
                                                                          0.2306
                               0.4445 -0.2311
                                                                                      0.3861
                                                                               0.3259
                                          0.1664
                0.3855 -0.2483 -0.1974 -6.3103 -0.2980 0.3855 -0.2575 0.3849 0.3861
       -0.1079
```

"

m N v

j

```
NACAL 292 RUN 20 DATE 13 OCT 80 TIME 00.11 RECOMP. NO. 1 DISK 1
                                                                                       PAGE 20
                                 CONTRACT 1631
                                                  SUB ACCT 10001 ACQ DATE 1 JUL 80 18.44
JOB NO. 11
          LDGR ACCT 31302
MOD 14 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=4
DATA POINT 10
                                               -1.0766
                                          0.3446 -0.4410
                                          -1.0216 -0.4829
              -0.5966 - 0.2477
                                           -0.4065 -0.2212
           -0.6414
                         -3.1177
                                                                 -2.1077 0.4262
          -1.6625
         -1.1896
                           -3.2550
                                                               -3.5519
          -0.3174
                             -0.2048
            0.2840
                                                               -2.4082
                                                                            0.3848
              0.4106 0.4476
                                                                  -0,0933
                           0.4513 - 0.3102
                                                                                 0.3738
                              0.4522 - 0.1616
                                                                       9.2596
                                                                                   0.3896
                                0.4537 0.2139
                                                                             0.3344
      -0.2207
               0.3880 -0.3470 -0.2747 -0.3593 -0.3348 0.3905 -0.2863 0.3805 0.3948
```

PAGE 22 DATE 13 OCT 80 TIME 00.48 RECOMP. NO. 1 DISK 1 ' IACAL 292 RUN 23 10B NO. 11 SUB ACCT 30001 ACO DATE 2 JUL 80 17.20 LDGR ACCT 31302 CONTRACT 1631 MOD 17 ALPHA WIND ON RUN. C/B=70 DEG. FWD =54 DEG. AFT =38 DEG. MFAN =46 DEG. CMU=0 PA 14.282 15.04 SUMMARY PAGE ON TS ALPHA H н 9 CLH CDH CMH YM RL **PTPECH PTPCBH** PTPACH **THRUST** WFT THIH **CMUTH** CDR COHR PHI THETA DELAL 1 0.3752 15.2643 0.7234 0.5655 0.1610 -1095.9163 3185.3872 0.9811 0.9947 (...9948 0.3074 1.3000 51.9860 131.9561 0.3308 1.1840 0.0082 0.0371 0.5283 0.1102 -1170.6985 0.9767 0.9939 0.9936 2 -3.6474 15.3061 0.6154 0.5126 2924.1072 1.3000 50.1942 0.1258 0.4131 0.0028 0.0152 0.4976 115.4335 0.2788 3 -7.5683 0.4619 0,4712 0.0290 -1176.6023 2408,9916 0.9761 0.9940 0.9936 15.1523 1.3000 44.4260 94.1299 0.2055 0.1693 0.6989 0.0048 0.0205 0.4506 4 -10.997115.3804 0.3541 0.4547 -0.0551 -1166.3021 1960.3717 0.9768 0.9947 0.9943 1.3000 37.9122 93.4529 0.1542 0.3371 1.2777 0.0095 0.0406 0.4140 0.3403 15.0337 0.7209 0.1784 -1077.7032 3209.3656 0.9801 0.9948 0.9937 0.5603 1.3000 0.0095 0.0434 0.5169 52.1424 129.2303 0.32 96 0.3559 1.3550 4.2196 15.0379 0.7404 0.5956 0.1987 -927.73313235.3292 0.9867 0.9943 0.9946 1.3000 51.1815 134.5300 0.3391 0.1562 0.5392 0.0036 0.0190 0.5766 7 8.1644 15.0345 0.8286 0.6177 0.2806 -869.5014 3510.2898 0.9893 0.9952 0.9950 1.2000 53.2979 146,2891 0.3820 0.1771 0.6230 0.0044 0.0216 0.5960 8 11.9316 0.9198 0.3610 -783.9875 3572.5767 0.9926 0.9950 0.9970 15.0515 0.6321 1.2000 55.5037 158.1501 0.4263 0.1175 0.3049 0.0021 0.0143 0.6177 0.9968 9 15.7711 14.9365 0.9863 0.6437 0.4239 -694.4996 3459,9837 0.9942 0.9950 1.3000 56.8677 165,6218 0.4587 0.2693 0.7626 0.0054 0.0330 0.6107 10 19.5958 14.9866 1.0013 0.6296 0.4383 -440.3884 3203.8124 0.9934 0.9946 0.9948 166.8766 1.3000 0.8912 0.0063 0.0350 0.5946 57.8377 0.4657 0.2861

ì

```
DATE 13 OCT 80 TIME CO.44 RECOMP. NO. 1
NACAL 292
           RUN 23
                                                                             DISK 1
                                                                                      PAGE 2
                                                    SUB ACCT 10001
                                                                         ACQ DATE 2 JUL 80 17.03
JOB NO. 11
             LDGR ACCT 31302
                                  CONTRACT 1631
 MOD 17 ALPHA WIND QN RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=0
DATA POINT 1
                                                 0.5635
                                             0.8641
                                                      0.6872
                                             0.6041
                                                     0.6862
               0.7267 0.7045
                                             0.6540
                                                      0.6863
             0.6755
                           0.5454
                                                                  0.6922
                                                                              0.6633
            0.6971
           0.8588
                             0.5565
                                                                  0.6940
            0.8562
                               0.8489
                                                                 0.6589
             0.8284
                                                                                0.6984
               0.8219 0.8316
                            0.8414 0.6233
                                                                     0.6845
                                                                                    0.6886
                               0.8510
                                       0.6696
                                                                                      0.6982
                                0.8131 0.7093
                                                                               0.7095
       0.7496
               0.7625
                       0.7255
                                0.7193 0.7058
                                                0.7144 0.7570
                                                                 0.7058
                                                                         0.7644
```

```
NACAL 292 RUN 23
                         DATE 13 DCT 80 TIMF 00.46
                                                         RECOMP. NO. 1
                                                                           DISK 1
                                                                                       PAGE 14
                                                  SUB ACCT 10001
                                                                   ACQ DATE 2 JUL 80 17-16
         LDGR, ACCT 31302
                                 CONTRACT 1631
JOB NO. 11
 MOD 17 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=0
DATA POINT 7
                                               0.6661
                                           0.8581
                                                    0.6903
                                           0.6825
                                                    0.6851
               0.6910 0.7064
                                            0.6826
                                                    0.6767
            0.6015
                          0.6626
                                                              0.6780
           0.5293
                            0.6823
          0.7687
                                                                0.8329
           0.8621
                              0.8545
                                                               0.6811
            0.8519
                                                                               0.6925
               0.8380 0.8361
                                                                   0.7013
                           0.8408
                                   0.6916
                                                                                 0.6835
                              0.8499
                                     0.6855
                                                                                   0.6846
                             0.8140 0.6939
                                                                             0.7235
                      0.7021 0.7107 0.7082 0.7119 0.7502 0.7058 0.7607 0.7644
       0.7354
               0.7533
```

NACAL 292 RUN	23 DATE	13 OCT 80	TIME O	0.47	RECOMP. NO	0. 1	DISK 1	PAGE 16
JOB NO. 11	DGR ACCT 31302	C ONT RA CT	1631	SUB ACCT	10001	ACC	DATE 2 JUL	80 17.16
MOD 17 ALPHA WIN								. .
DATA POINT 8		• • • • • • • • • • • • • • • • • • • •			t i gran e and		e company	
			0 . 6	787				
- 10 - 15gg		· · · · · · · · · · · · · · · · · · ·	0.8618	0.6931	. The second sec	e e esta sa majoria		
Marie als			0.6950	0.6828	t man a see a			
0.523 0.4380		28	0.6976	0.6783		0.6934	0.6869	
0.7113	0.	6996			0.	8070		
0.859		0.8588	~ .		0.7	008	0.6943	
194	0.8	449 0.6724	r restriction of the second	10 - N - 10 - 10 - 10 - 10 - 10 - 10 - 1		0.6974	0.688	8
West materials		0.8559 0.687	5			6.72	43	
	- man	0.8162 0.	6976	• · · · · · · · · · · · · · · · · · · ·	naman na manana ang katang at a		0.6 0.7248	854
0.7304 0.	7564 0.6527	0.6749 0.70	45 0.69	96 0.79	508 0.69	84 0.761	9 0.7631	
and years .			- demonstrate to a constraint and a cons	***	A date on inc. yo	The year beam was a sugar	•	

NACAL	292 RUN 23	DATE 13	OCT 80 TIM	E 00.48	RECOMP. NO. 1	DISK 1 PAGE 20
JOB NO.	11 LDGR	ACCT 31302	CONTRACT 1631	SUB ACC	r 10001	ACQ DATE 2 JUL 80 17.19
. MOD 1	7 ALPHA WIND O	N RUN+C/B=70 DEC	G.FWD=54 DEG.AF	T=38 DEG.MEAN	N≖46 DEG+CMU=0	
DATA PO	INT 10				e man e eman e e e e e e e e e e e e e e e e e e e	. •
				0.6426		
999 1182 AA 7		•	0.8	173 0.6828	3	••• · · · · · · · · · · · · · · · · · ·
	•		0.6	182 0.693	3	
	0.614 0.5293 0.5589	5 0.6663 0.6737		6701 0.685	7 0.6922	0.6818
	0.6274 0.8150	0.6749	•		0.6811	
195	0.8556	0.85 0 0.8369	582		0.6916	0.6877
		0.8388	0.6744		0.687	5 0•6889
manual and passing		0.85	527 0.6801	A		0.7011
-41		(0.8159 0.6875		and the second s	0.6862 0.6973
•••	0.7237 0.751	4 0.6575 0.6	5595 0,6484	0.6459 0.7	7490 0.6564 0	•7551 0•7 502
						

orania de la composición del composición de la composición de la composición de la composición del composición de la com

DATE 13 DCT 80 TIME 03.08 RECOMP. NO. 1 DISK 1 PAGE 22 NACAL 292 RUN 24 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 2 JUL 80 17.51 MOD 18 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1 15.05 14.282 SUMMARY PAGE PT NO ALPHA H O H CLH CDH CMH ΥM RL PTPFCH PTPCBH **PTPACH** PHI THETA THRUST DELAL WFT HIHT CMUTH CDR CDHR 1 1.3512 15.1585 2.8626 0.4501 0.2795 -243.0128 12368.9232 1.3703 1.3704 1.3665 1.2000 81.0633 413.5273 1.3222 5.2392 122.9605 0.8616 0.6408 -0.19072 -2.5402 15.0636 2.9425 0.3506 0.2641 -813.8884 12348.3818 1.3719 1.3711 1.3658 1.2000 83.2050 420.2293 1.3478 5.2406 0.6439 -0.2933 123.2497 0.8691 3 -6.4908 14.9079 2.8458 0.2174 0.2521 -950.5953 11827.7440 1.3676 1.3708 1.3658 1.3000 85.6369 401.1150 1.2946 5.2362 123.0441 0.8767 0.6470 -0.4296 4 -10.089314.9709 2.5171 0.0577 0.2106 -769.3965 10492.6279 1.3710 1.3698 1.3723 196 1.2000 88.6862 354.6535 1.1359 5.2478 123.6806 0.8775 0.6474 -0.5847 5 1.3583 14.9477 2.8389 0.4423 0.2762 -415.1151 12190.0393 1.3730 1.3588 1.3677 1.3000 81.1436 404.3082 5.1829 0.6401 -0.1977 1.3109 121.3794 0.8625 6 5.1432 14.8941 2.8445 0.4832 0.3365 . 185.2748 12236.2558 1.3689 1.3603 1.3686 1,3000 80.3575 404.5612 1.3174 5.1622 120.8645 0.8620 0.6389 -0.15567 719.4406 12388.8582

0.4165

5.2131

0.4530

5.1967

0.4784

5.1773

0.5359

5.1835

122.9266

122,6184

121.8023

122.0993

1065.5592 12678.0354

1666.2950 12485.8365

2139.5250 12195.1062

9.0241

1.3000

12.9415

16.8311

1.3000

20.6459

1.3000

1.3000

8

9

10

14.9695

80.0083

15.0206

78.0686

14.9769

76.9867

15.1913

75.9851

2.5257

3.1072

3.2102

3.2581

419.2233

449.0827

464.5498

480.2517

0.5161

1.3587

0.6565

1.4533

0.7419

1.5095

0.8132

1.53 98

1.3694

0.6437

1.3698

0.6406

1.3727

0.6394

1.3647

0.6356

0.8722

0.8671

0.8638

0.8537

1.2719

1.3727

0.0159

1.3631

0.1024

1.3728

0.1775

-0.1276

1.3692

1.3707

1.3720

```
RUN 24 DATE 13 OCT 80 TIME 03.04 RECOMP. NO. 1
                                                                                      PAGE 2
                                                                          DISK 1
 NACAL 292
                                                  SUB ACCT 10001 ACO DATE 2 JUL 80 17.27
                                 CONTRACT 1631
                LDGR ACCT 31302
 JOB NO. 11
MOD 18 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1
DATA POINT 1
                                                0.1901
                                           0.8552 0.4162
                                                  0.5119
                                           0.4690
                                                    0.5976
                                            0.5465
                0.5894
                                                             -0.0477 0.1392
                          -0.7901
             0.4461
            0.2916
                                                               -0.1696
                            -0.4514
           .0.7103
            0.8685
                                                                            0.6126
                                                               -0.0784
                              0.8723
             0.8797
                0.8662 0.8683
                                                                   0.5673
                            0.8706 0.5720
                                                                                 0.5219
                                                                       0.7200
                              0.8660 0.5602
                                                                                  0.7076
                                                                             0.7314
                                0.8515 0.6759
                                               0.5533 0.7764 0.5265 0.7677 0.7758
                               0.5757 0.5483
                        0.5869
                0.7639
        0.7022
```

NACAL 292 RUN 24 DATE 13 OCT 80 TIME 03.07 RECOMP. NO. 1 DISK 1 PAGE 14 JOB NO. 11 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 17.45 LDGR ACCT 31302 MOD 18 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1 DATA POINT 7 0.4877 0.8575 0.4942 0.4405 0.5531 0.5517 0.5785 0.5496 0.5284 0.3414 -0.72400.2473 -0.0833 0.0137 -0.3748 0.4735 -0.4820 0.7922 0.8792 -0.2339 0.8722 0.6145 0.8755 0.8731 0.8708 0.5913 0.5557 0.6199 0.8666 0.7143 0.5497 0.6731 0.8603 0.6779 0.7208 0.7664 0.5770 0.5583 0.5172 0.5284 0.7826 0.5159 0.7683 0.7658 0.6518

NACAL 292		DATE 13 OCT 80				NO. 1		PAGE 16
JOB NO. 11	LDGR AC	CT 31302 CONTRACT	1631	SUB ACC	T 10001		ACQ DATE 2	JUL 80 17.46
MOD 18	ALPHA WIND ON R	UN,C/B=70 DEG,FWD=54	DEG,AFT≃3	BB DEG,ME	AN=46 DEG	•CMU=1		
DATA POINT	. 8				•			
			(0.4696				
gapen on more it.		(68 क् क	0.873	0.61	36	a. · · · · · · · · · · · · · · · · · · ·	•	
ه د د شوورو			0.4499	9 0.60	42			
Applications of the Control of the Control	0.5184 0.2548 -0.2033	0 7044	0.57		37	-0.0251	0.4468	
	0.3589	-0.3552				-0.4373		
199	0.7179 0.8715 0.8843	0.8935 0.8785		**	•	-0.1298	0.64	+17
**************************************	· ·	0.8765 0.6046	, u se	anaay ⊥asa tanan ta ayaa	iganicio igrada en la biblio des	0.584	57 (0.6742
		0.8771 0.5		ago o o caste en en en	and a major of the state of	No. Sec. 10 1 Mars 10 Sec. 10	0.7309	
aggregation of the special spe		0.8752	0.6953			No. 1. The No. of Paris of States	0.731	0.6608 1
_ · · · · · · · · · · · · · · · · o	.6524 0.7720	0.5533 0.5489 0.	5059 0	.5072 0	.7776	0.5134 (0.7783 0.7	758
			e a sagar e e e agai dans e e de agair e e e	agental per a service of the service		ara a a and r		

```
RUN 24 DATE 13 OCT 80 TIME 03.08 RECOMP. NO. 1 DISK 1 PAGE 20
NACAL 292
                                CONTRACT 1631 SUB ACCT 10001 ACO DATE 2 JUL 80 17,49
         LDGR ACCT 31302
JOB NO. 11
MOD 18 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1
DATA POINT 10
                                              0.6871
                                                0.6577
                                        0.8803
                                         0.4602 0.6528
                                          0.6050 0.6410
              0.4374 0.4162
                                                               0.0398 0.3539
                        -0.6278
            0.2293
          -0.4961
                                                            -0.2511
                        -0.1702
         -0.0465
           0.5493
                                                                        0.6214
                                                            -0.0128
                            0.9072
            0.8414
             0.8891 0.8942
                                                                0.6720
                          0.8903 0.6582
                                                                              0.6731
                                                                     0.7871
                            0.8914
                                    0.6466
                                                                                0.7033
                                                                          0.7625
                                       0.7808
                               0.8849
       0.6125 0.7739 0.3103 0.3751 0.4816 0.4953 0.7901 0.5010 0.7783 0.7795
```

₩,

·, ·-

CAL 292 RUN 25 DATE 13 OCT 80 TIME 03.18 RECOMP. NO. 1 DISK 1 PAGE 22

B NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 19.07

MOD 19 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=45 DEG, CMU=2 P_{T_c} P

15.075 14.282

SUMMARY PAGE

NO	ALPHA H PHI	О Н ТНЕТА	CLH THRUST	CDH DELAL	CMH WFT	М У НГНТ	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	2.1408 1.3000	15.1338 89.6803	4.8364 689.0580	0.0269 2.0934	0.7052 8.1238	2352.2248 265.1767	20027.9448	1.8916 0.9929	1.8941 -0.9659	1.8967
2	-1.9555 1.2000	15.2687 -86.6288	4.3159 621.4518	-0.2542 1.8535	0.5775 8.1220	2235.3046 265.3431	18464.2007 1.8459	1.8923 0.9890	1.8932 -1.2423	1.8997
3	-5.9806 1.2000	15.2007 -82.5461	3.5921 576.1523	-0.5223 1.6961	0.4507 8.1042	2300.7273 264.8273	17165.0983 1.8506	1.8924 0.9900	1.8921 -1.5123	1.8985
201	-9.6614 1.2000	15.2102 -77.7932	3.5408 518.7406	-0 .7659 1 .4945	0.3583 8.0949	2539.2933 265.0313	15533.5137 1.8509	1.8953 0.9893	1.8974 -1.7557	1.9002
5	2.1834 1.3000	15.1013 89.6786	4.8356 687.4659	0.0271 2.0931	0.6610 8.0915	2274.4886 264.8940	19872.2007 1.8632	1.8°67 0.9929	\$.8638 -0.9658	1.8055
6	6.2448 1.3000	14.9758 86.2022	5.3160 751.3172	0 •3 43 7 2 •32 60	0.7496 8.1044	2142.2942 265.3805	21591.5550 1.8823	1.8985	1.8912 -0.6557	1.8928
7	10.1306 1.3000	15.0500 83.4108	5•4302 774•4734	0.6272 2.4155	0.7259 8.0804	2248.8267 264.8202	22330.8109 1.8691	1.8939 0.9942	1.8942	1.8984
8	13.9830 1.2000	15.0403 81.6715	5.4658 782.1583	0 .8 001 2 .45 93	0.7043 8.0767	2754.9079 264.7461	22392.2834 1.8698	1.8925 0.9946	1.8931 -0.1944	1.8977
Ö	17.8707 1.2000	14.8446 79.9531	5.6145 796.8474	0.9947 2.5522	0.7347 8.0858	3475 •5339 265 •2924	22482.9605 1.8983	1.8472 1.0025	1.8942 -0.0078	1.8993
10	21.7983 1.2000	14.8679 78.2651	5.7085 816.0670	1 •1 85 8 2 • 62 53	0.7609 8.0634	4163.6742 264.6112	22616.1771 1.8905	1.8958 0.9992	1.8939 0.1865	1.8996

PAGE 2

DISK 1

JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 18.46 MOD 19 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2

DATE 13 OCT 80 TIME 03.14

DATA POINT 1

NACAL 292

RUN 25

~0.7609

RECOMP. NO. 1

0.8912 -0.1402

0.2440 -0.1664

0.4340 0.3781 0.4026 -0.2325 0.1691 -1.9476

-0.1950 -0.1950 -1.0288 . 0.8946

0.4048 -1.3461 -1.2140

0.9055 0.9023 -0.8656 0.7846

0.9008 0.5095 0.4917

0.7609

0.8980 0.4043 0.7091

0.8888 0.6260 0.7946

0.4769 0.7848 0.4023 0.4421 0.3706 0.3955 0.7904 0.4036 0.7835 0.7866

```
NACAL 292 RUN 25 DATE 13 OCT 80 TIME 03.17 RECOMP. NO. 1 DISK 1
                                                                                  PAGE 14
JOB NO. 11 LDGR ACCT 31302
                                CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 19.02
MOD 19 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2
DATA POINT 7
                                             0.0846
                                         0.8831
                                               0.2230
                                        0.1926 0.2184
              0.3196 0.3184
                                         0.3806 0.3286
           -0.0189
                        -2.0093
                                                           -1.0765 -0.4373
          -0.7800
         -0.0226
                        -1.3956
                                                          -1.5943
          0.5858
           0.8735
                           0.9060
                                                           -1.0728
             0.8998 0.9017
                                                                         0.6384
                         0.8963 0.4729
                                                               0.4853
                                                                            0.8174
                           0.8978 0.4158
                              0.8945 0.6286
                                                                        0.7728
      0.4390 0.7748 0.3426 0.3843 0.3016 0.3121 0.7773 0.3283 0.7810 0.7817
```

```
NACAL 292
            RUN 25 DATE 13 OCT 80 TIME 03.17 RECOMP. NO. 1
                                                                       DISK 1
                                                                                   PAGE 16
JOB NO. 11
         LDGR, ACCT 31302
                                CONTRACT 1631
                                               SUB ACCT 10001 ACO DATE 2 JUL 80 19.03
MOD 19 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2
DATA POINT 8
                                             0.3270
                                         0.8855
                                                 0.0483
                                         0.2089
                                                 0.4230
              0.2792 0.3053
                                         0.3710 0.2210
          -0.1234
                        -1.9885
                                                            -0.8919 -0.1682
          -0.9475
         -0.1797
                        -1.3778
                                                            -1.4964
          0.4869
           0.8458
                           0.9110
                                                           -1.1211
                                                                       0.6197
             0.8943 0.9009
                         0.8983 0.4624
                                                               0.3821
                                                                           0.7865
                            0.9000
                                                                   0.7180
                          0.8938
                                                                              0.8038
                                      0.6206
                                                                        0.7411
      0.4670
                     0.2978 0.3781 0.2985 0.3034 0.7761 0.3146 0.7804 0.7810
             0.7786
```

```
NACAL 292
             RUN 25 DATE 13 OCT 80 TIME 03.18 RECOMP. NO. 1
                                                                           DISK 1
                                                                                       PAGE 20
JOB NO. 11
          LDGR ACCT 31302
                                 CONTRACT 1631 SUB AGGT 10001 ACQ DATE 2 JUL 80 19.06
 MOD 19 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2
DATA POINT 10
                                               0.1455
                                           0.8695
                                                    0,4569
                                           0.1833
                                                    0.5721
              -0.0489 0.2493
                                            0.4004 0.4667
           -0.0733
                         -1.2770
                                                                -0.8753
                                                                          -0.0195
           -0.5672
          -0.5844
                          -0.9487
                                                               -1.7605
           0.2272
                            0.9110
            0.7805
                                                              -0.8179
                                                                            0.6107
               0.8766 0.8980
                           0.9028 0.4827
                                                                                0.6375
                             0.9068
                                     0.3855
                                                                                  0.7189
                              0.9017 0.6488
                      0.1455 0.0796 0.1442 0.2375 0.7786 0.2761 0.7810 0.7804
       0.1138
               0.7748
```

DATE 13 OCT 80 TIME 03.29 RECOMP. NO. 1 DISK 1 PAGE 22 RUN 26 IACAL 292 LDGR ACCT 31302 ACO DATE 2 JUL 80 19.44 10B NO. 11 CONTRACT 1631 SUB ACCT 10001

MOD 20 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4

15.075 14.282

SUMMARY PAGE

				30,	MARKI I FOL		•			
?T NO .	ALPHA H PHI	O H Theta	CLH THRUST	CDH Delal	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	2.8222 1.1000	7.4724 -79.4077	7•3407 525•3384	-1.3727 2.7824	1.0241 8.1453	4770.2726 271.4731	15188.3562 3.8591	1.9506 1.4356	1.9451 -2.8083	1.9560
2	-1.3484 1.2000	7.7299 -74.5629	6•4569 487•4555	-1 .7830 2 .4419	0.8721 8.1401	4854.7549 271.2135	14272.5826 3.7270	1.9463 1.4107	1.9442 -3.1937	1.9545
3	-5.4344 1.2000	7.8247 -69.5076	5.7984 455.9817	-2.1670 2.1864	0.7156 8.1470	4936.2667 271.6244	13373.0846 3.6874	1.9498 1.4036	1.9464 -3.5707	1.9547
4 206	-9.1095 1.2000	7.7776 -64.5620	5.3028 429.9496	-2.5222 1.9800	0.5819 8.1601	5029.3336 272.1645	12490.7420 3.7171	1.9489 1.4196	1.9453 -3.9329	1.9561
5	2.8921 1.3000	7.3831 ~79.1695	7.3901 522.9657	-1.4138 2.7927	1.0372 8.1381	4830.2273 271.5789	15118.7420 3.9073	1.9510 1.4444	1.9444 -2.8582	1.9574
6	7.0083 1.3000	7.3218 -83.5450	8.0034 555.1814	-0.9055 3.0608	1.1639 8.1345	4723.3749 271.4656	15986.8936 3.9384	1.9505 1.4497	1.9445 -2.3552	1.9586
7	11.1643 1.2000	7.1978 -87.6801	8.6416 586.0472	-0.3500 3.3487	1.2580 8.1335	4646.8513 271.4909	16716.0708 4.0066	1.9473 1.4631	1.9452 -1.8132	1.9498
8	15.1564	7.2172 88.7357	9.0545 623.8741	0.1998 3.5721	1.3145 8.1274	4631.3336 271.3778	17553.7519 3.9395	1.9494 1.4502	1.9451 -1.2504	1.9509
9	19.3475 1.2000	7.0314 85.4645	9.8110 651.4730	0.7782 3.9089	1.4219 8.1166	4782.6938 271.1671	18149.3582 4.0965	1.9491 1.4780	1.9449 -0.6997	1.9495
10	23.2381 1.3000	7.0949 82.2903	10.1197 682.0848	1.3699 4.1227	1.4392 8.1172	4805.5846 271.0650	18779.2912 4.0583	1.9483 1.4715	1.9430 -0.1015	1.9476

O

```
DATE 13 NCT 80
                                               TIME 03.25
NACAL 292
              RUN 26
                                                               RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 2
                 LDGR ACCT 31302
                                                       SUB ACCT 10001
JOB NO. 11
                                     CONTRACT 1631
                                                                              ACQ DATE 2 JUL 80 19.16
 MDD 20 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
DATA POINT 1
                                                   -0.7775
                                                0.4103
                                                        -0.3186
                                               -0.2113
                                                        -0.3745
                 0.0796 0.0167
                                               -0.0367 -0.1783
                                                                        -1.4796 0.4038
            -0.0788
                            -2.2977
           -0,3827
                              -1,7957
            0.0255
                                                                      -2.6608
            0.3185
              0.4355
                                 0.4378
                                                                     -1.9522
                                                                                       0.3740
                 0.4435 0.4407
                              0.4407
                                       0.0565
                                                                         -0.0392
                                                                                          0.3608
                                                                               0.2788
                                 0.4383 - 0.0722
                                                                                            0.3794
                                    0.4352 0.1654
                                                                                     0.3416
                                  0.0715
        0.0485
                         0.0547
                                           0.0192
                                                   0.0404
                                                            0.3999
                                                                     0.0460
                                                                              0.3906
                                                                                       0.3856
```

```
NACAL 292 RUN 26 DATE 13 OCT 80 TIME 03.28 RECOMP. NO. 1 DISK 1 PAGE 14
 JOB NO. 11 LDGR ACCT 31302
                                 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 19.37
   MDD 20 ALPHA WIND DN RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
DATA POINT 7
                                              -0.9235
                                          0.4201 -0.3939
                                          -0.1719 -0.4167
               -0.0048 -0.0317
                                          -0.0166 -0.4625
                          -2.2854
            -0.2855
                                                                         3,3972
                                                           -1.5114
            -0.8407
           -0.3356
                          -1.7413
                                                            -2.3551
             0.1346
              0.3947
                              0.4254
                                                            -1.7315
                                                                          0.3678
                0.4306 0.4390
                           0.4386 0.0817
                                                                 0.0166
                                                                              0.3572
                             0.4360 -0.0290
                                                                               0.3732
                               0.4356 0.1834
                0.3831 -0.0189 0.0074 -0.0232 -0.0097 0.3887 -0.0171 0.3837 0.3831
        0.0136
```

- - -

. . .

. .

1

```
RUN 26 DATE 13 OCT 80 TIME 03.28 RECOMP. NO. 1
                                                                                PAGE 16
                                                                        DISK 1
NACAL 292
          LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 19.40
JOB NO. 11
MOD 20 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
DATA POINT 8
                                              -0.9303
                                          0.4287 -0.4316
                                         -0.1534 -0.4719
                                          -0.0146 -0.4667
              -0.0525 -0.0501
                                                              -1.5395 0.4143
                         -2.2781
            -0.3900
           -1.0938
                                                              -2.231G
                           -1.7199
          -0.5857
            0.0245
                                                                           0.3697
                                                             -1.6563
                             0.4378
             0.3669
               0.4283 0.4406
                                                                  0.0287
                           0.4412 0.1016
                                                                               0.3600
                              0.4403 -0.0114
                                                                                 0.3755
                                 0.4413 0.1926
       -0.0538 0.3881 -0.0648 -0.0152 -0.0415 -0.0348 0.3931 -0.0311 0.3862 0.3831
```

```
NACAL 292 RUN 26 DATE 13 OCT 80 TIME 03.29 RECOMP. NO. 1 DISK 1 PAGE 20
JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 19.43
  MOD 20 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, YEAN=46 DEG, CMU=4
DATA POINT .10
                                            -0.8703
                                         0.4306 -0.4018
                                        -0.1500 -0.4602
                                         -0.0016 -0.4875
              -0.4255 -0.1137
                                                       -1.4600 0.4361
            -0.3601
                         -1.7162
           -0.8737
                                                            -2.0641
                        -1.3683
          -0.8743
           -0.1954
                                                           -1.5077
                             0.4428
                                                                       0.3795
             0.3031
               0.4074 0.4367
                          0.4449 0.1048
                                                              0.0702
                                                                           0.3635
                             0.4467 0.0424
                                                                   0.3108
                              0.4475 0.2313
                                                                         0.3646
       -0.2922 0.3962 -0.2225 -0.2885 -0.1718 -0.0966 0.3899 -0.0727 0.3962 0.3906
```

ACAL 292 RUN 28 DATE 13 OCT 80 TIME 04.25 RECOMP. ND. 1 DISK 1 PAGE 22

OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 2 JUL 80 23-51

MOD 22 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=0 P_{TS}
15.035 14.277

SUMMARY PAGE

						•				
T NO	ALPHA H PHI	ቦ H THETA	CLH THRUST	C DH D EL A L	CMH WFT	YM - THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.3551 0.4500	15.2668 47.4427	0.6248 121.9242	0.5 <i>1</i> 37 0.2832	0.0797 0.3213	-874.2738 1.1955	2488.8011 0.0083	0.9873 0.0276	0.9927 0.5460	0.9960
2	-3.5967 0.9500	15.4554 42.1914	0.4589 99.4257	0.5062 0.2037	0.0107 0.5177	-972.7009 1.6518	2124.2066 0.0113	0.9884 0.0443	0.9949 0.4619	0.9967
3	-7.5256 0.9500	15.2696 31.2648	0.2830 78.4027	0.4662 0.1200	-0.0722 0.3165	-943.9491 1.0668	1585.7812 0.0074	0.9879 0.0272	0.9945 0.4389	0.9958
4 211	-11.1606 0.9500	15.4515 16.0542	0.1247 65.6203	0.4335 0.0451	-0.1626 0.3100	-877.6080 1.0274	803.2033 0.0070	0.9885 0.0265	0•9948 0•4069	0.9967
5	0.2783 0.9500	15.1177 47.1720	0.5987 116.1859	0.5549 0.2706	0.0773 0.0797	-908.8902 0.2841	2466.0108 0.0019	0.9885 0.0069	0.9943 0.5480	0.9964
6	4.1379 0.9500	15.1370 49.1273	0.6965 131.2726	0.6028 0.3179	0.1490 0.4925	-867.6081 1.5724	2880.6983 0.0110	0.9903 0.0426	0.9938 0.5601	0.9976
7	7.9386 0.9500	14.9578 49.7730	0.7138 131.6555	0 •6 03 8 0 •32 63	0.2419 0.4722	-751.1910 1.4734	3047.6594 0.0104	0.9928 0.0411	0.9937 0.5626	0.9968
8	11.7541 0.9500	15.0705 52.4691	0.7837 140.2113	0 .6 02 0 0 .36 01	0.3111 0.4783	-688.0002 1.0428	3126.3001 0.0073	0.9971 0.0415	0.9949 0.5604	1.0001
ġ	15.7201 0.9500	14.9551 55.6513	0.9049 154.3108	0.6184 0.4189	0.3353 0.2317	-510.6718 0.7021	3283.0452 0.0049	0.9945 0.0202	0.9939 0.5982	0.9957
10	19.5340 0.9500	14.9016 55.9888	1.0010 169.4090	0 •6754 0 •4664	0.32 <i>2</i> 5 0.2912	-380.4995 0.8742	3231.3498 0.0062	0.9947 0.0254	0.9950 0.6500	0.9944

NACAL 292 RUN 28 DATE 13 OCT 80 TIME 04.21 RECOMP. NO. 1 DISK 1 PAGE 2 JOB NO. 11 SUB ACCT 10001 ACQ DATE 2 JUL 80 23.29 LDGR ACCT 31302 CONTRACT 1631 MOD 22 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=0 DATA POINT 1 0.5433 0.8659 0.6859 0.7033 0,6855 0.7579 0.7504 0.7051 0.6837 0.6510 0.7293 0.6922 0.6939 0.7473 0.8704 0.3108 0.8910 0.8258 0.8263 0.7859 0.8006 0.6906 0.8014 0.8113 0.8188 0.7360 0.7730 0.7011 0.6213 0.7530 0.7798 0.6954 0.8264 0.7448 0.7498 0.7529 0.7374 0.7405 0.7610 0.7480 0.7554 0.7560

PAGE 14 DATE 13 OCT 80 TIME 04.23 RECOMP. NO. 1 DISK 1 RUN 28 NACAL 292 ACQ DATE 2 JUL 80 23.47 CONTRACT 1631 SUB ACCT 10001 LDGR ACCT 31302 JOB NO. 11 MOD 22 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=0 DATA POINT 7 0.6342 0.6752 0.8620 0.7480 0.6763 0.7280 0.6738 0.7262 0.7405 0.7361 ... 0.6798 0.7094 0.6429 0.5993 0.8704 0.6889 0.8107 0.8595 0.7710 0.6812 0.8294 0.8339 0.8230 0.8210 0.7588 0.8268 0.7415 0.6877 0.7713 0.8261 0.7462 0.6996 0.7533 0.8183 0.7546 0.7355 0.7293 0.7417 0.7697 0.7380 0.7604 0.7654 0.7380 0.7498 0.7336

NACAL 2	292 RUN	28	DATE	13 NCT	80	TIME	04.24	RF	COMP.	NO.	1	£	ISK	1	PA	GE 16
JOB NO.	11 L	DGR ACCT	31302	CON.	T RA CT	1631	SUB	ACCT 1	0001			ACO	DATE	2 JUL	80	23.48
_ MOD 22	2 ALPHA WINI	D ON RUN,	C/B=70	DEG, FW	D=42	DEG,AFT=	42 DEG	ME AN=4	2 DEG	•CMU=()					
DATA POI	INT B					*										
							0.6484									
grand on auditions of white is yet				r 6: -•		0.846	9 0.	6786	•							
described a set of						898.0	3 0	.6761								
	0.686	4	0.715	50		0.70	53 0	.6732	24	0.	7504		0.684	8		
	0.6099 0.7877 0.8628		0.7	7113						0.762	29					
214	0.845	5	276	. 83 94			39		(0.7411			0.	6879		
			0.82	88 0	•7278		aller gar - gal - g		*	0 ,	.7 588	1		0.690	8	
descriptions of the second of		sacd -	. 0	. 6338	0.7	418	a - Familian	e od wib o	- 30.000 M	مشيئوس بيت	<u>.</u>	.762	4			
AND THE RESERVE OF THE PARTY OF				0.81	93	0.7491	-	/ 19 g	. Na. Nadido	n / n / m	:®wi⊸t ⊎		0.75	0 . 6	974	
art u	0.6963 0.7	7498 0.	6870	0.6808	0.	7075 0	.7032	0,762	3 0,	7007	0.	7554	0.	7654		

سک

NACAL 29	92 RUN 28	DATE 13 OCT 80	TIME	04.24	RECOMP. NO.	1 DISK	1 ,	PAGE 20
JOB NO. 1	11 LDGR A	CCT 31302 CONTRAC	T 1631	SUB ACCI	10001	ACQ DATE	E 2 JUL 80	0 23.50
MOD 22	ALPHA WIND ON	RUN, C/B=70 DEG, FWD=42	DEG,AFT=4	2 DEG, MEAN	I=42 DEG,CMU≖0			
DATA POI	NT 10				•			
			0	.6831				
Anna Mila Historia (C.)		, <u>n</u> a on and o 940-on	0.7258	0.6971	8 - 89 NA - 937K	•		
, ,			0.6675	0.6894	_			
	0.6771 0.6814 0.6839	0.6808 0.6746	0.676	6 0.6760) ,	957 0.68	355 .	
	0.7585 0.8438	0.7734			0.664	0		
215	0.8514 0.8375	0.8406 0.8259	. .	• A64 · · ·	0.6292	(2.6792	
p		0.8247 0.682	9	p - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.	6566	0.6909	
gasanasare in area constitution (in the silventile till a transfer of the		0.8332 0.	6826		t Na Na Na	0.7079		
		0.8055	0.6643	www.asywon - ti		0.8	0.6851 8234	7
- 40	0.6939 0.7405	0.6796 0.6833 0	.6777 0.	6864 0.7	7511 0.6609	0.7405	7504	
passed risk in the control of					es e pe e e e e	 t ta - € 3.		

. . . .

SCAL	292 R	UN 29	DATE 13	OCT 80	TIME 04.37	RECOMP	. NO. 1	DISK	1 PA	GE 22
JB NO.	. 11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 10001		ACO DATE	3 JUL 80	0.26
MOD :	∑3 ALPH4	WIND ON RUN	, C/B=70 DE0	G•FWD=42 DI	EG,AFT≖42 DEG SUMMARY PAGE	•MEAN≖42 DE	G,CMU=1	P _T _S 15.05	P _A 14.277	
NO	ALPHA H		CLH	CDH		YM	RL	PTPFCH	PTPCRH	PTPACH
	PHI	THETA	THRUST	DELA	L WFT	- тити	CMITH	CDR	COHR	
1	0.4910	14.8338	1.7360	0 •2 94	5 0.0279	671.8479	7248.8789	1.3656	1.2671	1.3591
_	0.9500		245.5023	0.800		119.2518	0.8539	0.4545	-0.1564	
2	-3.1560	14.9963	1.5310	0 •2 02	7 -0.0576	567.9258	6753.9369	1.3660	1.3672	1.3690
••	0.9500		218.0320	0.702		119.3622	0.8454	0.4526	-0.2459	
3	-7.0980	15,1130	1.3161	0 •1 33	3 -0.1333	342,5539	6280.8100	1.3680	1.2667	1.3765
,	0.9500		188.2054	0.601		119.6136	0.8407		-0.3181	242
4	-10.6315	15.1546	1.1602	0.0683	3 -0.2219	263.7001	5714.3139	1.3698	1.3676	1.3702
2 16	0.9500		165.8188	0.52 9		120.2310	0.8427	0.4524	-0.3840	
5	0.7690	14.9343	1.6813	0 ,260	0 0.0201	738.3946	7165.2470	1.3687	1.7574	1.3739
	0.9500	81.2070	239.1905	0.773	6 5.2154	120.1344	0.8544		-0,1954	
6	4.7244	14.9734	1.8611	0.350	5 0.0836	1011.9736	7645.3897	1.3729	1.3689	1.3732
	0.9500		266. 9571	0.860		120.6612	0.8559	0.4561	-0.1056	
7	8.6356	14.6981	1.5928	0.437	6 0.1566	1198.7138	7717.1043	1.3717	1.3690	1.3722
	0.9500	77.6142	282.3124	0.926	5 5.2199	120.5149	0.8709	0.4602	-0.0226	
8	12.4668	14.9436	2.1365	0.515	2 0.2411	1343.8501	7870.8326	1.3623	1.3646	1.3662
	0.9500	76.4418	309.1879	0.998		118.2267	0.8403	0.4509	0.0642	
9	16.3784	14.8876	2.3196	0.612	4 0.3073	1599.3053	8138.7440	1.3580	1.3623	1.3433
	3.9500		336.2495	1.090		118.0002	0.8419	0.4522	0.1602	
.0	20.2285	14.7842	2.5246	0.718	0 0.3811	1847.8029	8601.6397	1.3621	1.3661	1.3637
	0.9500		365.3170	1.194		118.5948	0.8521	0.4545	0.2635	

1,1

0.7718

0.7159

```
NACAL 292
                                                              RECOMP. NO. 1
              RUN 29
                           DATE 13 OCT 80
                                              TIME 04.34
                                                                                 DISK 1
                                                                                               PAGE 2
JOB NO. 11
                                    CONTRACT 1631
                                                      SUB ACCT 10001
                                                                              ACQ DATE 3 JUL 80 0.05
                 LDGR ACCT 31302
 MOD 23 ALPHA WIND ON RUN, C/B=70 DEG, FND=42 DEG, AFT=42 SEG, MEAN=42 DEG, CMU=1
DATA POINT 1
                                                   0.6631
                                              0.8826
                                                        0.6709
                                              0.7646
                                                        0.6595
                                               0.7815
                                                        0.6568
                0.7264 0.7246
                                                                       0.3132
                                                                                  0.5803
             0.6717
                           -0.0036
            0.6848
           0.8582
                             -0.0415
                                                                     0.2286
            0.8746
             0.8454
                                9.8451
                                                                     0.4399
                                                                                     0.6795
   217
               0.8374 0.8397
                             0.8461
                                      0.8311
                                                                        0.7800
                                                                                        0.6660
                                0.8505 0.8336
                                                                             0.8154
                                                                                          0.6737
                                   0.8518 0.7943
                                                                                   0.7672
```

.

0.7445 0.7476 0.7215 0.7140 0.7637

0.7314

NACAL 292	RUN 29	DATE 13 DO	CT CA		· •		8
JOB NO. 11 MOD 23	LDGR	1000	ONTRACT 1631	SHR ACCT 1	COMP. NO. 1 0001 2 DEG.CMU=1	DISK 1 ACQ DATE 3 JUL 8	PAGE 14 80 0.19
DATA POINT	7						
			0.	6860	t Marie Andrews (1994) (1994)	w - con	• .
			0.8821	0.6760	e e e	Mark mark 1	
	0 4440	· · · .	0.7621	0.6752	e de la composición		
	0.6668 0.5307	0.6848 0.0024	0.7718	0.6668		Ammental control to the control of t	
	0.4319 0.7177 0.8707	0.0024			0.3113	0.5187	
	0.8738 0.8602	0.8551	* *	•	0.4480	0.6529	
218		0.8570 0	8390		0.7884		
**** **********************************		0.8628	0.8377	-• -· · · · · · · · · · · · · · · · · ·	- . .	0.6725	Memby do 4 to 1 Member 2 − 1 Ang
		0.85	67 0.8026	* • • • • • • • • • • • • • • • • • • •		0.6791 0.7729	

0.6898 0.7674 0.7115 0.6985 0.6891 0.6804 0.7650 0.6910 0.7662 0.7606

NACAL 292	RUN 29	DATE 13 OCT 80	TIME 04	•36 F	RECOMP.	NO.	1	DISK	1	PAGE 16
JOB NO. 11	LDGR A	CCT 31302 CONTRACT	1631	SUB ACCT	10001		ACC	DATE	3 JUL	80 0.21
MOD 23 /	ALPHA WIND ON	RUN, C/B=70 DEG, FWD=42	DEG,AFT=42	DEG,MEAN=	=42 DEG	.CMU=1				
DATA POINT	8									
			0.6	913						
		· · · · · · · · · · · · · · · · · · ·	0.8806	0.6568	٠	ger e e ye		••		
 .			0.7515	G •6646		~				
	0.6220 0.4685	0.5456	0.7800	0.6406		0.3	069	0.542	8	
	0.3573 0.6954 0.8430	0.0174				0.241	1			
-	0.8795	0.8600			ay colo	0.4375		0.	6578	
219		0.8584 0.8367				0.	7874		Ů∙6832	!
Landaga alara da antara da		0.8684 0.8	451		en de terretario	an erar Pris	0.8	285		w -a- oa
		0.8598	0.8086					0.77	0 •69 21	

0.7612 0.5785 0.6164 0.6494 0.6512 0.7619 0.6587 0.7575 0.7606

NACAL 29	2 RUN 29	DATE 13 OCT 80	TIME 04	.37 REC	COMP. NO. 1	DISK 1	PAGE 20
JOB NO. 1	1 LDGR	ACCT 31302 CONTRACT	1631	SUB ACCT 10	0001	ACQ DATE 3 JUL	80 0.24
MOD 23	ALPHA WIND ON	RUN, C/B=70 DEG, FWD=42	DEG,AFT=42	DEG,MEAN=42	2 DEG,CMU=1		
DATA POIN	Т 10					e w water	
	•		0.6	521			
		•	0.8824	0.6803			
		en e	0.6583	0.7097	v -	•••	
	0.4884 0.3355 0.4269	0.4934 0.0870	0.7472	0.6766	0.3231	0.6215	
	0.2939 0.7051	0.0627			0.2684		
220	0.8762	0.8750 0.8864	-		0.4312	0.6472	
0		0.8818 0.7952			0.828	0 0.677	2
		0.8863 0.89	514	mana ay an ay		0.8458	• • •
-		0.8793	0.8271	• · · • ·	- · ·	0.7978	948
0	•5356 0.7656	0.5058 0.4250 0.5	5468 0.54	93 0.7718	3 0.5120 0	.7637 0.7706	

.)

1CAL 392 RUN 30 DATE 13 OCT 80 TIME 04.48 RECOMP. NO. 1 DISK 1 PAGE 22 18 NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 3 JUL 80 18.29 $^{P}_{T_{S}}$ $\mathbf{P}_{\mathbf{A}}$ MOD 24 ALPHA WIND ON RUN. C/B=70 DEG. FWD=42 DEG. AFT=42 DEG. MEAN=42 DEG. CMU=2 15.07 14.282 SUMMARY PAGE . 110 ALPHA H 0 H CLH CDH CMH YM RL **PTPFCH PTPCBH** PTPACH DELAL PHI THETA THRUST WFT HTHT CMUTH COR COHR 1 1.4616 15.0264 3.1373 -0.0274-0.0020 2607.5398 13029.2854 1.8892 1.6879 1.8960 0.9500 -89.4979 443.6232 1.3958 8.0418 260.5273 0.7050 1.8417 -9.73252 -2.5494 15.0588 2.9345 -0.164i -0.0626 1.8933 2206.9640 12665.3247 1.8853 1.8926 -P6.7591 8.0533 260.8871 0.9500 416.6564 1.2979 1.8402 0.7060 -6.87013 -6.3956 15.0594 2.8276 -0.2990-0.12781848.6798 12516.5177 1.8936 1.8883 1.8955 0.9500 -83.9625 403.1078 1.2420 8.0535 261.2904 1.8430 0.7065 -1.0056 -9.7643 14.8864 2.8965 -0.4239 -0.1255 1531.3206 12394.1121 1.8903 1.8925 1.8892 0.9500 -81.6733 410.2535 1.2612 8.0647 261.7741 1.8679 0.7118 -1.13575 1.4171 14.8713 3.1100 -0.0556 -0.0052 2584,5949 12983,5314 1.8916 1.8880 1.8954 0.9500 -88.9766 436.5880 1.3850 8.0499 261.2220 1.8658 0.7110 -0.7667 15.0083 6 5.3137 3.3317 0.1088 0.0397 2920.4473 13504.5885 1.8905 1.8881 1.8960 0.9500 88.1283 470.9870 1.4917 8.0529 261.4092 1.8501 0.7081 -0.59927 9.1986 15.1201 3.4614 0.2100 0.1107 2432.3380 13556.9074 1.5,942 1.8888 1.8853 0.9500 86.5336 494.6131 1.5606 8.0573 261.3932 0.7060 -0.49591.8363 8 13.1105 15.3216 3,5961 0.3982 0.1684 3700.2524 13510.3267 1.8849 1.8926 1.8890 0.9500 8.0381 0.6997 83.6798 521.1716 1.6366 260.7807 1.8079 -0.30149 17.0476 15.0948 3.8601 0.6087 0.2605 4002.5615 13789.7913 1.8869 1.8863 1.8928 0.9500 555.3152 1.7762 81.0382 8.0371 260.8268 1.8355 0.7049 -0.096210 21.0868 15.1744 4.0732 0.8175 0.3506 4284.8671 14288.6417 1.8892 1.8851 1.8899

8.0410

261.0482

1.8274

0.7038

0,1136

0.9500

78.6516

593.4811

```
DATE 13 OCT 80 TIME 04.44 RECOMP. NO. 1 DISK 1 PAGE 2
NACAL 292
            RUN 30
                               CONTRACT 1631 SUB ACCT 10001 ACQ DATE 3 JUL 80 18.10
JOB NO. 11
               LDGR ACCT 31302
MOD 24 ALPHA WIND ON RUN, S/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=2
DATA POINT 1
                                            0.5381
                                        0.8902 0.6533
                                        0.7171 0.6164
                                        0.7325
                                                0.5502
              0.6754 0.6773
                                                      -0.0754 0.3482
                        -0.7853
           0.6031
           0.4958
          0.8157
                        -0.0226
                                                           -0.4683
           0.8907
                           0.8750
                                                          -0.1079
                                                                       0.5919
            0.8855
              0.8611 0.8572
                         0.8633 0.8704
                                                              0.7313
                                                                           0.6123
                                                      0.8315
                            0.8688
                                   0.9610
                                                                             0.6354
                           0.8643 0.7547
                     0.6910 0.6910 0.6885 0.6473 0.7796 0.6567 0.7958 0.7839
       0.6835
              0.7939
```

```
8
```

```
NACAL 292
             RUN 30
                          DATE 13 OCT 80 TIME 04.47 RECOMP. NO. 1
                                                                           DISK 1
                                                                                       PAGE 14
JOB NO. 11
          LDGR ACCT 31302
                                  CONTRACT 1631
                                                  SUB ACCT 10001 ACQ DATE 3 JUL 80 18.23
  MOD 24 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=2
DATA POINT 7
                                                0.6289
                                           0.9070
                                                    0.7308
                                                  0.6854
                                           0.7395
               0.6074 0.6598
                                           0.7538
                                                    0.6351
            0.4634
                         -0.7025
                                                              -0,0527
                                                                          0.2858
           0.1933
           0.6112
                          -0.0508
                                                               -0.4156
           0.8497
                              0.8931
            0.9072
                                                              -0.1177
                                                                             0.6277
               0.9029 0.8893
                           0.8915
                                   0.8935
                                                                   0.7660
                                                                                 0.6407
                              0.8956
                                      0.9991
                                                                       0.8626
                                                                                   0.6880
                                0.8865 0.7883
                                                                            0.7973
       0.6486
               0.8033
                      0.6230 0.6654 0.6760 0.6399 0.7964
                                                                      0.8058 0.8026
                                                              0.6461
```

```
NACAL 292
            RUN 30
                    DATE 13 OCT 80 TIME 04.47 RECOMP. NO. 1
                                                                         DISK 1 PAGE 16
JOB NO. 11 LDGR ACCT 31302
                                CONTRACT 1631 SUB ACCT 10001 ACQ DATE 3 JUL 80 18.25
 MDD 24 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAU=42 DEG, CMU=2
DATA POINT 8
                                              0.6382
                                          0.9118
                                                  0.7473
                                          0.7418
                                                  0.6562
              0.5001 0.6174
                                          0.7664
                                                  0.6582
           0.3860
                        -0.6848
                                                                          0.1891
                                                              -0.0404
          0.0336
          0.4690
                          -0.0594
                                                            -0.4573
          0.8002
           0.9087
                            0.9031
                                                             -0.0803
                                                                            0.6223
              0.9118 0.9026
                          0.9033
                                  0.9010
                                                                 0.7632
                                                                               0.6545
                            0.9052 1.0051
                                                                     0.8759
                               0.8959
                                                                                 0.7039
                                       0.8033
                                                                          0.8198
      0.5600
              0.8083
                     0.5338
                             0.5538
                                     0.6685
                                                    0.7995 0.6523 0.8107 0.8126
                                            0.6411
```

```
NACAL 292
              RUN 30
                            DATE 13 OCT 80
                                              TIME 04.48
                                                              RECOMP. NO. 1
                                                                                 DISK 1
                                                                                              PAGE 20
JOB NO. 11
                                                   SUB ACCT 10001
              LDGR ACCT 31302
                                    CONTRACT 1631
                                                                            ACQ DATE 3 JUL 80 18.27
  MOD 24 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=2
DATA POINT 10
                                                   0.6325
                                              0.8972
                                                        0.7251
                                               0.6477
                                                        0.5889
                                               0.6510
                                                        0.6058
                0.3704
                        0.4153
             0.4683
                                                                      -0.1023
                            -0.5585
                                                                               0.2625
           -0.2243
                             -0.0729
           -0.0472
                                                                    -0.4205
            0.5517
                                                                   -0.1189
                                0.9218
             0.8824
                                                                                    0.5950
                0.9188 0.9214
                             0.9171
                                                                        0.7991
                                      0.8788
                                                                                       0.6507
                                0.9198
                                         1.0089
                                                                             0.9024
                                                                                         0.7261
                                   0.9124
                                           0.8374
                                                                                   0.8381
        0.4241
                0.8145
                         0.3941
                                                           0.8101
                                 0.4047
                                          0.4390
                                                  0.2968
                                                                   0.3804 0.8157
                                                                                    0.8126
```

ACAL	392	RUN	31	DATE 1	3 OCT	80	TIME	04.59	RECOM	P. NO. 1	DISK	1	PAGE 22
OB NO.	. 11	ŧ	DGR ,ACCT	31302	CON	TRACT	1631	SUB	ACCT 1000	1	ACO DATE	3 JUL 8	0 18.56
MOD 2	5 ALPHA	. WII	ND ON RUN	,C/B=70 D	EG, FW	D=42 D	EG ,AFT	42 DEG	MEAN=42 DE	EG,CMU=4	$^{\mathtt{P}}\mathtt{T}_{\mathtt{S}}$	$\mathbf{P}_{\mathbf{A}}$	
											¹ S 14.67	14.282	
							SUMMAR	Y PAGE			1400		
ON T'	ALPHA PHI	Н	H Q ATBHT	CLH THRUS	т	C DH D EL A		CMH WFT	Үм НТНТ	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	2.629 0.950		7.4590 -83.6806	6.425 453.925		-0.711 2.565		.3173 .1105	3132.6791 268.0240	12826.6613 3.8169	1.9443 1.0226	1.9383 -1.7341	
2	-1.570 0.950		7.6708 -79.2426	5•671 416• 862		-1 .077 2 .258		.2051 .1060	3171.3331 267.9539	11884.5806 3.7106	1.9437 1.0080	1.9393 -2.0854	
3	-5.640 0.950		7.6802 -74.5432	5.099 382.516		-1 .409 2 .017	9 (0.0942 0.1070	3195.6427 268.1730	11003.8543 3.7090	1.9422 1.0076	1.9399 -2.4176	
226 4	-9.353 0.950		7.8405 -69.6443	4.466 351.615		-1 .657 1 .765		.0197 .1160	3303.6751 268.5385	10094.7578 3.6381	1.9428 0.9984	1.9410 -2.6554	
5	2.556 0.950		7.6359 -83.6853	6.311 456.448		-0 .6 98 2 . 532		.3032 .1077	3117.2716 268.2589	12874.9684 3.7317	1.9424 1.0107	1.9391 -1.7091	
6	6.388 0.950		7.5598 -86.9211	6•102 434•942		-0.328 2.512		0.0802 0.0990	3447.6663 268.0824	12471.6968 3.7668	1.9440 1.0148	1.9408 -1.3430	
7	10.247 0.950		7.5485 -89.4208	6°234 443°035		-0.063 2.600		0.1934 0.0968	3631.6810 268.0221	12639.6515 3.7716	1.9445 1.0154	1.9398 -1.0784	
8	14.119 0.950		7.5574 87.8766	6.351 452.177		0,235 2.690		0.2211 3.1132	3743.3666 268.7586	12736.7814 3.7781	1.9457 1.0169	1.9404 -0.7815	
9	18.208 0.950		7.5003 84.8120	6•711 475•85 <i>6</i>		0.609 2.884		.3139 .1073	2916.6008 268.4950	13180.3267 3.8025	1.9443 1.0202	1.9370 -0.4168	

0.4181 8.0914

3997.4704 13797.4665

3.8958

267.8523

1.9370

0.0329

1.9415

1.0320

1.9497

22.2957

10

7.3032

81.6815

7.2834

506.0856

1.0649

```
RUN 31 DATE 13 OCT 80 TIME 04.55 RECOMP. NO. 1
NACAL 392
                                                                       DISK 1
                                                                                  PAGE 2
                                               SUB ACCT 10001 ACQ DATE 3 JUL 80 18.35
         LDGR ACCT 31302
JOB NO. 11
                               CONTRACT 1631
 MOD 25 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
DATA POINT 1
                                            -0.5035
                                         0.4431 0.1050
                                         0.2762 -0.1345
              0.2231 0.2175
                                          0.2893 -0.1570
           0.0978
                        -1.2500
                                                         -0.6899 0.3746
          -0.0674
                         -0.0735
          0.2138
                                                            -0.6862
          0.3950
                            0.4326
           0.4419
                                                           -0.4142
                                                                         0.3752
            0.4420 0.4403
                          0.4388 0.4194
                                                               0.3638
                                                                             0.3665
                            0.4373
                                    0.4572
                                                                  0.4180
                                                                               0.3867
                             0.4359 0.3785
                                                                         0.4016
      0.2044
                     0.2032 0.2281 0.2356
              0.3814
                                            0.2275
                                                                          0.3908
                                                    0.3958
                                                           0.2468
                                                                   0.3864
```

The second secon

1

```
RUN 31 DATE 13 OCT 80 TIME 04.57 RECOMP. NO. 1
                                                                                     PAGE 14
                                                                         DISK 1
NACAL 392
                                                SUB ACCT 10001 ACQ DATE 3 JUL 80 18.53
                                CONTRACT 1631
         LDGR ACCT 31302
JOB NO. 11
 MDD 25 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
DATA POINT 7
                                              0.2006
                                          0.4493
                                                 0.2549
                                          0.2867 0.1147
                                                   0.0530
              0.1882 0.2262
                                           0.3169
                                                                         -0.1242
                                                              -0.4804
            0.0741
                         -1.1789
          -0.1752
                                                              -1.0036
                         -0.2463
          0.1371
           0.3615
                                                             -0.5759
                                                                         0.2677
                             0.4513
            0.4433
   228
              0.4484 0.4477
                                                                  0.3623
                           0.4473 0.4616
                                                                               0.2566
                                                                      0.4342
                           0.4461 0.5968
                                                                                 0.3118
                                                                           0.3922
                                0.4420
                                      0.3504
                      0.1683 0.2244 0.2462 0.2119 0.3933 0.2368 0.3964 0.3958
       0.2293
               0.3964
```

```
DATE 13 OCT 80 TIME 04.58 RECOMP. NO. 1
NACAL 392
             RUN 31
                                                                              DISK 1
                                                                                           PAGE 16
JOB NO. 11
          LDGR ACCT 31302
                                   CONTRACT 1631
                                                    SUB ACCT 10001
                                                                           ACO DATE 3 JUL 80 18.53
 MOD 25 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
DATA POINT 8
                                                 0.2762
                                             0.4488
                                                      0.3325
                                             0.2653
                                                      0.1579
               0.1770 0.1589
                                              0.3140
                                                      0.2554
             0.0236
                                                                              -0.0318
                          -1.2206
                                                                    -0.4865
           -0.3125
           0.0629
                            -0.2683
                                                                  -0.9534
           0.2839
            0.4328
                               0.4513
                                                                 -0.5772
                                                                                0.2290
               0.4501 0.4539
                            0.4493
                                                                                    0.2995
                               0.4474 0.5824
                                                                                      0.3274
                                  0.4427 0.3651
                                                                                0.3996
                       0.1034 0.2119 0.1976 0.1951
                                                         0.3958
                                                                 0.2194
                                                                         0.3902
```

```
RECOMP. NO. 1
          RUN 31 DATE 13 OCT 80 TIME 04.58
NACAL 392
                                                                              DISK 1
                                                                                          PAGE 20
JOB NO. 11
          LDGR ACCT 31302
                                  CONTRACT 1631
                                                    SUB ACCT 10001
                                                                          ACO DATE 3 JUL 80 18.55
 MOD 25 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
DATA POINT 10
                                                 0.2827
                                             0.4365
                                                      0.3449
                                             0.0303
                                                      0.2845
                                             0.2492
                                                      0.2466
               0.0280 0.0105
           -0.0839
                          -1.1807
                                                                   -0.5104
                                                                             -0.1487
          -0.5600
         -0.2683
                            -0.3247
                                                                 -0.9215
           0.1274
            0.3941
                               0.4531
                                                                 -0.5870
                                                                               0.2685
               0.4427 0.4508
                            0.4511
                                    0.3953
                                                                                    0.2904
                                       0.6111
                                                                          0.4385
                               0.4527
                                                                                      0.3274
                                 0.4494
                                                                               0.4018
               0.3821 -0.0398 -0.0502 0.0006 -0.0453 0.3908 0.1016 0.3902 0.3908
       0.1228
```

ICAL	292 R	UN	33	DATE	13	OCT	80	TIME	05.24	RECOMP.	NO. 1	ļ	DISK	1	PAGE 22
IR NO.	11	L	OGR ACCT	31302		CONT	RACT	1631	SUB	ACCT 10001		A	CO DATE	8 JUL	80 17.53
MOD 2	7 ALPHA	WINE			DEG	S, FWO	=42 D	EG ,AFT	=42 DEG	,MEAN=42 DEG	•CMU=0		$^{\mathrm{P}}$ TS	$P_{\mathbf{A}}$	
				AUG 2									14.74	14.22	
	•							SUMMA	RY PAGE						
. NO	ALPHA H	4	οн	CLI	-1		СОН		CMH	YM	RL	-	PTPFCH	PTPCB	н ртрасн
110	PHI	•	THETA	THRI			DELA		WFT	ТКТН	CMI	ITH	CDR	CDHR	
1	0.3169	r 1	10.6423	0.47	700		0.357	6 (0.0847	-632.6936	1948.52	209	0.9936	0.596	1 0.9990
•	0.9500		52.7317	85.33			0.309		0.0536	0.0661	0.00	004	0.0038	0.353	7
2	-3.5888	? 1	10.5612	0.32	205		0.352	8 -	0.0052	-683.6423	1427.10	165	0.9937	0.496	7 0.9985
2	0.9500		42.2532	68.35			0.205		0.2720	0.6651	0.00		0.0197	0.333	Ú
3	-7.6022	> 1	10.8432	0.12	212		0.324	0 -	0.1035	-691.8168	711.46	594	0.9932	0.996	4 0.9982
231 ³	0.9500		20.5187	50.93			0.068		0.2421	0.6034	0.00)40	0.0173	0.306	6
4	-11.1962	? ;	10.9376	-0.12	249		0.323	0 -	0.1934	-597.9714	-443.02	201	0.9924	0.996	
	0.9500		21.1452	51.43	336	-	0,097	5	8816.0	0.7819	0.00	152	0.0227	0.300	3
5	0.352	1 .	10.5883	0.40	579		0.359	8	0.0840	-656.9040	1929.07	787	0.9941	0.696	
-	0.9500		52.4364	84.8			0.307	8	0.1512	0.3496	0.00	124	0.0109	0.348	. 3
6	4.2313	3 :	10.5070	0.60	99		0 .3 93	4	0.1774	-596.6219	2507.20		0.9949		
	0.9500)	57.1757	103.5	363		0.406	6	0.2211	0,5294	0.00	137	0.0161	0.377	3
7	P.147	5	10.3704	0.7	546		0.403	3	0.2779	-489.1841	2936.69		0.9958	n.995	
	0.9500)	61.8770	120.4	743		0.507	4	0.2339	0.5668	0.00	140	0.0171	0.386	1
8	12.061	3	10.3215	0.50	557		0 .406	6	0.3657	-439.1884	3645.15	505	0.9976	0.996	
•	0.950		67.2496	147.3			0.656		0.2409	0.4848	0.00	034	0.0177	0.388	9
ò	15.982	6	10.3495	1.0	620		0.491	4	0.3683	-345.4360	3986.58		0.9961		
	0.950		65.1680	164.43	251		0.725	2	0.3672	0.8938	0.00	063	0.0270	0. 464	.4
10	19.896	B	10.3694	1.1	150		0 .5 82		0.3942	-213.5150	4124.75		0.9976	0.998	
	0.950	0	62.4234	177.0	835		0.768	19	0.2205	0.4245	0.00	030	0.0162	0.566	1

```
NACAL 292 RUN 33 DATE 13 UCT 80 TIME 05.20 RECOMP. NO. 1 DISK 1
                                                                                 PAGE 2
JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 8 JUL 80 17-17
MOD 27 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AF; =42 DEG, MEAN=42 DEG, CMU=0
                      AUG 2
DATA POINT 1
                                                  0,3833
                                              0.5965
                                                      0.5020
                                              0.4838 0.4673
          0.5115 0.5196 0.5302 0.5333
                                              0.4878 0.4654
      0.4728
                                  0.4660
                                                              0.5009 0.4724
    0.4093
  0.4965
                                    0.0697
 0.5881
                                                                0.5949
  0.5771
                                     0.5632
    0.4782
                                                                0.5383
                                                                           0.4748
       0.5196
            0.5369 0.5459 0.5485
                                                                   0.5281
                               0.5602 0.5096
                                                                                0.4761
                               0.5632 0.5195
                                                                                  0.4744
                            0.5602 0.5277
                                                                            0.5156
      0.5457 0.5420 0.5407 0.5339 0.320 0.5314 0.5189 0.5432 0.5196 0.5277
```

```
TIME 05.23 RECOMP. NO. 1
                                                                             DISK 1
                                                                                     PAGE 14
                      DATE 13 OCT 80
             RUN 33
NACAL 292
                                                   SUB ACCT 10001 ACQ DATE 8 JUL 80 17.47
                LDGR ACCT 31302
                                  CONTRACT 1631
JOB NO. 11
 MOD 27 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=0
                        AUG 2
DATA POINT 7
                                                       0.3799
                                                   0.5905
                                                            0.4983
                                                   0.4915
                                                            0.4640
           0.4660 0.5002 0.5214 0.5196
                                                    0.4890
                                                            0.4622
                                                                         0.5040
                                                                                    0.4750
        0.4031
                                      0.4753
    0.2541
                                        0.1700
                                                                        0.5856
  0.3451
0.4984
                                                                       0.5233
                                                                                      0.4687
                                          0.5557
  0.5863
    0.5629
        0.5528
                                                                           0.5195
              0.5576 0.5531
                           0.5490
                                                                                         0.4744
                                  0.5601
                                            0.5016
                                                                            0,5278
                                   0.5609 0.5096
                                                                                           0.4745
                                                                                   0.5122
                                        0.5561 0.5193
                       0.5140 0.5183 0.5208 0.5.52
                                                        0.5146 0.5295
               0.5015
       0.5046
```

```
RECOMP. NO. 1
                      DATE 13 OCT 80 TIME 05.23
                                                                                             PAGE 16
NACAL 292
          RUN 33
                                                                                DISK 1
                                                     SUB ACCT 10001
                                                                             ACQ DATE 8 JUL 80 17.48
                LDGR ACCT 31302
                                   CONTRACT 1631
JOB NO. 11
 MOD 27 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=9
                         AUG 2
B TRIDG ATAG
                                                         0.3890
                                                     0.5187
                                                              0,4983
                                                     0.4518
                                                              0.4639
                   0.4535 0.5177 0.4884
                                                     0.4722
                                                              0.4565
                                                                                       0.4730
        0.3931
                                       0.4853
                                                                            0.4722
    0.2330
  0.2909
                                         0.1931
                                                                           0.5027
0.4411
                                           0.5557
                                                                          0.4953
  0.5703
                                                                                          0.4755
    0.5771
        0.5598
              0.5626 0.5565 0.5487
                                             0.4805
                                                                                             0.4742
                                    0.5534
                                                                                  0.5017
                                      0.5553
                                                0.4847
                                                                                               0.4722
                                                                                        0.5071
                                         0.5493
                                                   0.4860
                        0.4921 0.4766 0.4803 0.4641
       0.4759
                                                          0.5115
                                                                                    0.5002
```

and the second s

```
NACAL 292 RUN 33 DATE 13 OCT 80 TIME 05.24 RECOMP. NO. 1 DISK 1
                                                                              PAGE 20
 JOB NO. 11 LDGR, ACCT 31302
                                CONTRACT 1631
                                                SUB ACCT 10001 ACO DATE 8 JUL 80 17.51
  MOD 27 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=0
                       AUG 2
DATA POINT 10
                                                   0.4651
                                               0.4827
                                                       0.4901
                                                       0.4708
                                               0.4612
                  0.4498 0.5189 0.4585
                                                0.4768 0.4744
       0.3831
                                   0.4853
                                                          0.4722
    0.2342
                                                                             0.4617
   0.3302
                                    0.2342
                                                                  0.4678
0.4261
   0.5429
                                       0.5588
                                                                 0.4784
                                                                            0.4767
    0.5890
        0.5812
             0.5795 0.5675 0.5588
                                0.5584
                                        0.4805
                                                                                0.4730
                               0.5627
                                                                                   0.4719
                                                                             0.5689
                                     0.5448
       0.4641
              0.4691
                      0.4635
                             0.4510 0.4753
                                            0.4629
                                                   0.5146 0.4710
```

. .

å

PAGE 22 ACAL 292 RUN 34 DATE 13 OCT 80 TIME 05.35 RECOMP. NO. 1 DISK 1 OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 8 JUL 80 18.32 $^{\mathtt{P}}\mathtt{T}_{\mathtt{S}}$ ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=1 AUG 2 14.76 14.23 SUMMARY PAGE ALPHA H T NO 0 HCLH CDH YM RI. CMH PTPFCH PTPCBH PTPACH PHI THETA THRUST WFT HTHT . CMUTH COHR DELAL CDR 1 1.2169 10.4993 1.8213 0.1156 0:1440 851.0205 7775.4537 1.3953 1.3972 1.3963 0.9500 1.1940 86.3680 260.1313 5.3062 126.5570 0.8878 0.3885 - 0.27282 -2.8288 10.4040 1.6314 0.0436 0.0385 647.3182 7092.5836 1.3970 1.3967 1.3988 0.9500 88.4661 230.5216 1.0656 5.3020 126.5902 0.8962 0.3902 - 0.34653 -6.7453 10.3577 1.3866 -0.0469-0.0539 632.8495 6540.4251 1.4033 1.4027 1.4040 0.9500 -88.0595 195.1054 0.9018 5.3353 128.4235 0.9133 0.3944 -0.4414 4 -10.5062 10.5224 1.1774 -0.1137-0.1550 615.9382 5727.3572 1.3964 1.3972 1.3978 0.9500 -84.4814168.9838 0.7642 5.3070 126.9076 0.8883 0.3889 - 0.5027236 5 1.1548 1.7922 0.1232 10.5375 0.1308 810.0994 7792.5285 1.3981 1.3955 1.4003 0.9500 86.0673 256,9939 1.1764 5.2923 126.6263 0.8851 0.3877 -0.2645 6 5.1811 10.5246 2.0512 0.2325 0.2417 830.9082 1.3967 8638.2736 1.3950 1.3984 0.9500 83.5329 294.9589 1.3550 5.2948 0.3881 - 0.1556126.5589 0.8857 7

21.8336 10.4953 3.2033 0.8492 0.6198 1724.6053 11370.2657 1.3971 1.4004 0.9500 75.1508 472.1943 2.1984 5.2999 126.9530 0.8909 0.3892 0.4600

0.3487

5.2759

0.4342

5.2794

0.5366

5.2922

1005.5992

125.8865

1203.9879

126.0626

126.2796

1395.5575 10658.1948

9174.1397

9635.6889

0.8799

0.8818

0.8834

1.3942

0.3865

1.3953

0.3868

1.3941

0.3878

1.3044

1.3949

0.0437

1.3940

0.2409

-0.0777

1.3956

1.3949

1.3954

1.3938

0.3087

1.5175

0.4306

1.6908

0.6288

1.9737

9.0519

0.9500

13.0558

17.2106

0.9500

0.9500

8

9

10

10.5378

82.3213

10.5296

80.3478

10.5291

77.8572

2.2899

2.5322

2.9228

330.5703

367.1889

```
NACAL 292
              RUN 34
                            DATE 13 OCT 80 TIME 05.31 RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 2
JOB NO. 11
                 LDGR, ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACQ DATE 8 JUL 80 18.00
  MOD 28 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=1
                          AUG 2
DATA POINT 1
                                                            0.3883
                                                       0.5976
                                                                 0.4821
                                                       0.4851
                                                                 0.4223
                                                        0.5029
             0.4814 0.5020 0.5344
                                    0.5076
                                                                 0.3911
        0.4190
                                        -0.2562
                                                                                          0.2877
                                                                               0.0430
     0.3099
                                          -0.0833
   0.4147
                                                                            -0.1103
 0.5525
                                             0.5830
                                                                            0.1471
   0.5999
                                                                                             0.4206
     0.5499
         0.5536
                                                                                 0.5116
               0.5656 0.5672 0.5644
                                     0.5749
                                                                                                0.4079
                                               0.5673
                                                                                     0.5542
                                        0.5789
                                                  0.5950
                                                                                                  0.4462
                                                                                           9.5201
                                           0.5809
                                                     0.5293
        0.5213
                0.5232
                         0.5213
                                  0.5045
                                           0.5176
                                                    0.5063
                                                             0.5288
                                                                      0.5063
```

```
RECOMP. NO. 1
                                                                                           PAGE 14
                                                                              DISK 1
                     DATE 13 OCT 80 TIME 05.34
NACAL 292
          RUN 34
                                                                           ACO DATE 8 JUL 80 18.27
              LDGR, ACCT 31302
                                   CONTRACT 1631
                                                    SUB ACCT 10001
JOB NO. 11
 MOD 28 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=1
                        AUG 2
DATA POINT 7
                                                        0.3478
                                                   0.6087
                                                             0.4807
                                                   0.4892
                                                             0.4434
                                                             0.4329
                                                    0.5188
                   0.4720 0.5381 0.4989
                                                                          0.0473
                                                                                    0.3149
        0.3511
                                     -0.2170
    0.0835
                                       -0.1471
                                                                        -0.0980
  0.1671
0.3617
                                          0.6030
                                                                        0.1234
                                                                                       0.4339
  0.5656
    0.6078
        0.5950
                                                                           0.5176
             0.5973 0.5911 0.5859
                                                                                          0.4399
                                            0.5928
                                   0.5936
                                                                                0.5615
                                      0.5928
                                               0.6076
                                                                                            0.4712
                                                                                0.5397
                                        0.5971 0.5452
                                0.4914 0.5082 0.5169
                                                         0.5438 0.5082
                                                                                  0.5070
       0.4864
                0.4633
                        0.4970
```

```
NACAL 292 RUN 34 DATE 13 OCT 80 TIME 65.34 RECOMP. NO. 1 DISK 1
                                                                               PAGE 16
JOB NO. 11
          LDGR ACCT 31302
                              CONTRACT 1631 SUB ACCT 10001
                                                                 ACO DATE 8 JUL 80 18.28
 MOD 28 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=1
                     AUG 2
DATA POINT 8
                                                0.3481
                                            0.6055
                                                    0.5043
                                            0.4387
                                                    0.4665
          0.3972 0.3916 0.5381 0.4932
                                             0.4947
                                                    0.4349
      0.3592
                             -0.1961
   0.1078
                                                         0.0361
                                                                        0.1652
  0.0685
                                  -0.1593
0.3030
                                                              -0.0723
 0.5134
                                    0.6130
   0.6044
                                                              0.1197
                                                                          0.4153
      0.6110
                 0.6041 0.5975
                                                                 0.5221
                              0.5979
                                     0.5707
                                                                              0.4522
                              0.6025 0.6012
                                                      0.4754
                                0.6042 0.5513
     0.4490
                   0.4427 0.4677 0.5076 0.4964 0.5475 0.5076 0.4826
                                                                      0.5026
```

· ·

A MA COMPANIAN .

. .

ı

```
NACAL 292 RUN 34 DATE 13 OCT 80 TIME 05.35 RECOMP. NO. 1 DISK 1
JOB NO. 11 LDGR ACCT 31302
                                                                               PAGE 20
                                CONTRACT 1631
                                                SUB ACCT 10001 ACO DATE 8 JUL 80 18.30
 MOD 28 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=1
DATA POINT 10
                                                   0.1240
                                               0.4195
                                                       0.4161
                                               0.2865
                                                       0.4161
          0.2556 0.2768 0.4883 0.4097
                                               0.3935
       0.2613
                                                       0.3664
                                  -0.1397
  0.1527
                                                              0.3037
                                                                             0.2731
 -0.0386
                                   -0.1716
0.0511
                                                                 -0.0049
  0.3260
                                      0.6130
   0.5347
                                                                 0.2301
                                                                               0.4125
      0.6086
            0.6112 0.6069 0.5998
                               0.6010 0.4910
                                 0.6047
                                          0.5934
                                                                                   0.4495
                                    0.6012 0.5587
                                                                             0.5384
     0.3348
                    0.3454 0.3086
                                   0.4377 0.4695 0.5413
                                                          0.4845
```

ACAL	292 RI	IN 35	DATE 13	OCT 80	TIME 05.45	RECOM	P. NO. 1	DISK	1	PAGE 22
OB NO.	11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 1000	1	ACO DATE	8 JUL 8	19.02
MOD 2	9 ALPHA W		•C/B=70 DEG AUG 2	, FWD=42 DE	G,AFT=42 DEG	MEAN=42 DE	EG,CMU=2	P _{TS}	A	
		•	A00 Z						4.233	
					SUMMARY PAGE	•		·		
T NO	ALPHA H	о н	CLH	CDH	СМН	YM	RL	PTPFCH	PTPCBH	PTPACH
•	PHI	THETA	THRUST	DELAL		тнтн	CMUTH		CDHR	
1	2.2420	10.5057	3.8077	-0.0561	0.3917	1979.7984	15542.1239	1.9196	1.9230	1.9224
	0.9500	-89.1556	543.1443	2.3297	7.9880	261.1887	1.8312	0.5854	-0.6415	
2	-1.7194	10.5917	3.4986	-0.3026	0.3064	2150.2558	14513.1574	1.9156	1.9198	1.9204
	0.9500	-85.0558	504.9568	2.1140	7.9680	260.3505	1.8105	0.5816	-0.8842	
3	-5.8819	10.5397	3.0726	-0.5340	0.1782	2301.9384	12949.8385	1.9193	1.9217	1.9217
	0.9500	-80.1405	446.2421	1.8420	8.1306	266.1481	1.8600	0.5955	-1.1296	
4	-9.5504	10.5167	2.6688	-0.7107	0.0531	2527.3503	11514.3444	1.9199	1.9231	1.9220
241	0.9500	-75.0882	394.3293	1 •5 93 8	8.1252	266.1455	1.8640	0.5961	-1.3068	
5	2.4214	10.2508	3.9562	-0.0902	0.4385	2113.1299	15661.0295	1.9186	1.9221	1.9250
	0.9500	-88.6933	550.7209	2 .4 01 5		265.9639	1.9111	0.6036	-0.6938	
6	6.4027	10.1710	4.2212	0.1778	0.5227	2013.4955	16574.2204	1.9190	1.9197	1.9232
	0.9500	87.5873	583.3857	2.6021	•	259.5264	1.8795	0.5913	-0.4135	
7	10.5519	10.0825	4.6401	0.4722	0.6754	1919,4274	18004.0314	1.9206	1.9224	1.9252
•							2000 14001		A 6 - 14 - 1	2 - 7,

0.7897

7.9378

0.9222

7.9580

1.0391

7.9729

259.6614

260.2950

261.1286

261.5338

1855.6296 19152.4881

1881.5649 20239.1810

1960.4463 21272.9605

2,8940

0.7656

3.1262

1.1044

3,4219

1.4674

3.7007

0.9500

14.5052

18.6949

22.8049

0.9500

0.9500

0.9500

8

9

10

84.1888

10.1068

81.1811

9.9108

9.7798

75.4341

78.2759

638.4263

685.2691

731.3416

774.6929

4.5352

5.3220

5.6472

-0.1216

1.9215

0.1710

1.9223

0.5022

1.9210

0.8598

1.9240

1.9267

1.9245

0.5938

1.9191

0.5946

1.9195

0.6022

1.9180

0.6075

1.8969

1.8970

1.9407

```
NACAL 292
               RUN 35
                             DATE 13 OCT 80
                                                TIME 05.41
                                                                RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 2
 JOB NO. 11
                LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACO DATE 8 JUL 80 18.40
  MOD 29 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=2
                           AUG 2
DATA POINT 1
                                                           -0.3362
                                                       0.6203
                                                                 0.2860
                                                       0.3977
                                                                -0.0105
             0.4020 0.4407 0.5323 0.4338
                                                        0.4176
                                                                 0.0451
         0.3222
                                        -1.1323
                                                                              -0.5257
     0.0523
                                                                                          0.0730
   0.1614
                                          -0.0245
                                                                            -0.4828
0.4114
   0.5830
                                             0.5996
                                                                           -0.1489
     0.6183
                                                                                             0.4636
         0.6040
                              0.5977
                                                                                0.5047
                                     0.6042
                                               0.5540
                                                                                                0.4904
                                                                                     0.5829
                                        0.6002
                                                 0.5801
                                                                                                 0.5319
                                                                                           0.5583
                                           0.6020
                                                    0.5529
       0.4481
                0.4644
                                  0.4644 0.4656
                         0.4849
                                                   0.4675
                                                            0.5504
                                                                     0.4712
```

```
NACAL 292 RUN 35 DATE 13 OCT 80 TIME 05.43 RECOMP. NO. 1
                                                                                PAGE 14
                                                                        DISK 1
JOB NO. 11
          LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 8 JUL 80 18.57
MOD 29 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=2
                        AUG 2
 DATA POINT 7
                                                   -0.1822
                                                0.5416
                                                         0.2755
                                              0.3425
                                                        0.0990
            0.2530 0.2537 0.4937 0.4238
                                                0.4053
                                                         0.0193
        0.2537
                                    -0.7769
                                                              -0.4313
                                                                              -0.0016
    -0.2640
   -0.0563
                                     -0.2132
                                                                   -0.1017
  0.1695
                                       0.6034
   0.4431
                                                                  -0.1924
                                                                             0.3875
     0.5838
        0.6090
                    0.6008 0.5934
                                 0.5960 0.5294
                                                                                   0.4382
                                                                          0.5640
                                   0.5974 0.6664
                                                                                     0.5129
                                                                              0.5483
                                     0.5989 0.5403
                      0.4083 0.3827 0.4313 0.4326 0.5392 0.4488 0.4201 0.4226
        0.3852
               0.4014
```

```
NACAL 292
               RUN 35 DATE 13 OCT 80 TYME 05.44
                                                              RECOMP. NO. 1
                                                                                 DISK 1
                                                                                              PAGE 16
JOB NO. 11
                 LDGR ACCT 31302
                                    CONTRACT 1631
                                                      SUB ACCT 10001
                                                                       ACQ DATE 8 JUL 80 18.59
MOD 29 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=2
                          AUG 2
DATA POINT 8
                                                         -0.0721
                                                     0.5659
                                                               0.3089
                                                     0.2750
                                                               0.1054
             0.1782 0.2200 0.4650 0.3889
                                                     0.3804
                                                               0.0721
         0.1888
                                       -1.0245
                                                                            -0.4926
                                                                                      -0.1650
    -0.0680
  -0.2071
                                         -0.2316
                                                                          -0.6201
-0.0116
   0.3453
                                            0.6158
                                                                         -0.2107
                                                                                          0.4077
     0.5443
         0.6166
               0.6145 0.6107 0.6039
                                                                              0.5072
                                    0.6051
                                              0.5477
                                                                                             0.4803
                                                                                   0.5673
                                       0.6054
                                                0.6111
                                                                                               0.5423
                                                                                        0.5500
                                          0.6107
                                                   0.5432
        0.2917
                0.3409
                         0.3353
                                 0.3977
                                          0.4270
                                                  0.4238
                                                           0.5404
                                                                   0.4270
                                                                            0.4076
```

-

NACAL 292	RUN 35	DATE 13 OC	T 10 T 1	ME 05.45	RECOMP. N	0. 1	DISK	l	PAGE 20
"JOB NO. 11	LDGR ACCT	31302 CO	NTRACT 163	1 SUB AC	CT 10001	AC	Q DATE	8 JUL 8	0 19-01
MOD 29 ALPH	IA WIND ON RUN	,C/B=70 DEG,F AUG 2							
DATA POINT 10			.	• .		•			
				-0.	2561				
The first of the second of the	•		≜ ⊢ wa-	0.4374	0.3041		âr		
				0.1159	0.0551				
0.102 0.0099	.1009 0.0741 2	0.3746 0.31	.66 -0.8578	0.2871	-0.0018	0.45	540	0.3430	
-0.3094 -0.2500			-0.2788			-0.5857	7		
0.1005 0.4074 0.587	4		0.6133	L	•	-0.1991		0.456	55
N 4 4 V	0.6019 0.60	0.6	025 0.49 0.6078 0	65		0.5		0.	4939
			0.6074	0.5267	we compray to the	· free energy is	₩ Yest		0.5135
0.1620	0.2187 0.	2156 0.1651	0.3465	0.3883 0.	5367 0.38	52 0.379	0 0.3	328	
		• •						•	

JACAL	292 R	UN 36	DATE 13	OCT 80	TIME 05.58	RECOM	P. NO. 1	DISK	1	PAGE 24
IOB N	0. 11	LDGR ACCT	31302	CONTRACT 1	631 SUB	ACCT 1000	l	ACO DATE	8 JUL 8	0 19.33
MOD	30 ALPHA	₩IND ON RUN	•C/8=70 DEG AUG 2	•FWD=42 DEG	AFT=42 DEG	:MEAN=42 DE	EG,CMU=4	8	P _A	
				S	UMMARY PAGE					
מא די	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	2.9185 0.9500		5.4860 402.6462	-1.0996 2.9370	0.5123 8.1316	3610.3070 270.1991	11455.0058 3.7546	1.9565 0.8471	1.9602 -1.9468	
2	-1.2264 0.9500		4.5854 372.6022	-1 .5 02 0 2 .63 58	0.3666 8.1323	3766.0339 270.5161	10602.5196 3.7802	1.9600 0.8502	1.9592 -2.3522	
3	-5.4099 0.9500		4.3818 346.5495	-1.7710 2.3145	0.2130 8.1352	3804.9547 270.5223	9899.6293 3.6893	1.9585 0.8402	1.9559 -2.6113	1.9631
4	-9.2088 0.9500	-	3.8471 319.0921	-2.0343 2.0274	6.0747 8.1104	3918.2450 269.7260	9073.9133 3.6786	1.9575 0.8379	1.9572 -2.8723	
5	2.9386 0.9500		5.6352 401.3928	-1.1703 2.9895	0.5217 8.1753	3631.6412 271.9614	11377.7834 3.6995	1.9582 0.8663	1.9559 -2.0367	1.9573
6	7.2112 0.9500		6.3219 430.7228	-0.7886 3.3682	0.6851 8.1192	3580.7081 270.0821	12136.2637 3,9948	1.9565 0.8740	1.9569 -1.6626	

8.1368

0.9559

8.1178

1.0841

8.0884

1.2112

8.0784

3542.7918 12823.6554

3475.0551 13528.2519

3512.1269 14109.8484

3485.0290 14749.3720

3.9059

3.9709

4.0427

4.0730

270.7456

270.1835

269.2074

268,5835

1.9575

0.8651

1.9567

1.9561

0.8777

1.9545

0.8809

0.8712 -0.7532

1.9572

1.9561

1.9546

1.9510

0.2622

-0.2740

-1.2374

1.9571

1.9587

1.9595

1.9579

7

8

9

10

11.1680

0.9500

15.3141

0.9500

19.5230

23.6550

0.9500

0.9500

5.1058

5.0117

89.0499

4.9049

4,8572

81.8769

85.4522

-86.7542

6.5662

7.1130

7.5853

8.0088

455.8801

484.0388

506.9675

533-4714

-0.3723

3.56 93

0.1179

3.9230

0.6036

4.2522

1.1431

```
NACAL 292 RUN 36 DATE 13 OCT 80 TIME 05.53 RECOMP. NO. 1
                                                                         DISK 1
JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 8 JUL 80 19.10
 MOD 30 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
                        AUG 2
DATA POINT 1
                                                    -0.3713
                                                 0.3134
                                                       0.0675
                                                0.1660
                                                        -0.1598
           0.1856 0.2136 0.2616 0.1937
                                                0.1905 -0.1571
        0.1220
                                   -1.2821
                                                                   -0.7720
                                                                               0.2702
    -0.0306
   0.0330
                                     -0.0949
                                                                  -0.9741
 0.1644
   0.2831
                                        0.3114
                                                                  -0.7151
                                                                               0.2572
     0.3128
        0.3075
             0.3089 0.3032 0.2993
                                                                       0.2236
                                         0.3371
                                 0.3040
                                                                                    0.2504
                                                                       0.3052
                                   0.3053
                                                                                      0.2606
                                                                                0.2753
                                      0.3052
                                              0.2398
               0.2217
       0.2130
                              0.2092 0.2136 0.2123 0.2690 0.2198 0.1905 0.2067
                      0.2211
```

```
NACAL 292
            RUN 36
                           DATE 13 OCT 80
                                            TIME 05.56
                                                             RECOMP. NO. 1
                                                                                DISK 1
                                                                                             PAGE 14
JO8 NO. 11
                LDGR ACCT 31302
                                   CONTRACT 1631
                                                     SUB ACCT 10001
                                                                       ACQ DATE 8 JUL 80 19.26
 MOD 30 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MFAN=42 DEG, CMU=4
                         AUG 2
DATA POINT 7
                                                        -0.4288
                                                     0.3095
                                                              0.0356
                                                             -0.1721
                                                     0.1484
            0.1040 0.1326 0.2391 0.1837
                                                     0.1705
                                                             -0.2004
        0.1021
                                      -1.2502
                                                                           -0.7861
                                                                                       0.2419
   -0.2155
 -0.1732
                                        -0.2994
                                                                          -0.9624
-0.0306
  0.1864
                                           0.3139
                                                                         -0.6930
                                                                                          0.2544
    0.2856
        0.3100
                     0.3072 0.3026
                                                                             0.2265
              0.3114
                                    0.3055
                                             0.3293
                                                                                            0.2462
                                                                                0,2885
                                      0.3072
                                                0.4232
                                                                                              0.2570
                                                                                        0,2711
                                         0.3072 0.2320
                        0.1731
                                0.1943
                                         0.1912
                                                 0.1930
       0.1868
                0.1955
                                                          0.2690 0.2043
                                                                           0.1806
                                                                                    0.1768
```

```
TIME 05.56 RECOMP. NO. 1
 NACAL 292
               RUN 36
                             DATE 13 DCT 80
                                                                                  DISK 1
                                                                                                PAGE 16
JOB NO. 11
                   LDGR ACCT 31302
                                     CONTRACT 1631
                                                       SUB ACCT 10001
                                                                               ACO DATE 8 JUL 80 19.27
   MOD 30 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
                           AUG 2
DATA POINT 8
                                                           -0.3825
                                                       0.2904
                                                                0.0311
                                                       0.1050
                                                               -0.1908
              0.0367 0.0940 0.2223
                                     0.1825
                                                        0.1652 - 0.1613
          0.0348
                                        -1.1449
                                                                             -0.7616
                                                                                         0.2550
     -0.2540
   -0.2638
                                          -0.3183
                                                                            -1.0984
 -0.0771
    0.1148
                                             0.3201
                                                                           -0.6937
                                                                                            0.2486
      0.2547
          0.3086
                0.3101 0.3090 0.3063
                                                                               0.2348
                                      0.3095
                                               0.3205
                                                                                               0.2461
                                                                                  0,2899
                                        0.3080
                                                0.4481
                                                                                                 0.2595
                                                                                         0.2773
                                           0.3109 0.2512
                                         0.1843 0.1893
         0.1208
                 0.1376
                          0.1376
                                   0.1793
                                                                                      0.1613
                                                            0.2753 0.1949
                                                                             0.1669
```

The state of the s

```
NACAL 292
                          DATE 13 OCT 80 TIME 05.57
             RUN 36
                                                            RECOMP. NO. 1 DISK 1
                                                                                           PAGE 20
JOB NO. 11
             LDGR ACCT 31302
                                   CONTRACT 1631
                                                    SUB ACCT 10001 ACQ DATE 8 JUL 80 19.30
 MOD 30 ALPHA WIND ON RUN, C/B=70 DEG, FWD=42 DEG, AFT=42 DEG, MEAN=42 DEG, CMU=4
                         AUG 2
DATA POINT 10
                                                       -0.2300
                                                   0.2578
                                                            0.0873
                                                   0.0353
                                                            -0.1261
           -0.0153 -0.0104 0.1843
                                  0.1588
                                                    0.1283 -0.1152
       -0.0048
                                     -1.1339
                                                                       -0.7102
                                                                                    0.2862
   -0.0979
 -0.2853
                                       -0.3594
                                                                       -1.0414
-0.2387
  -0.0237
                                          0.3182
                                                                       -0.6239
                                                                                      0.2496
    0.1746
        0.2956
             0.3072 0.3092 0.3061
                                                                           0.2316
                                   0.3050
                                            0.3174
                                                                                          0.2427
                                                                                0.3004
                                     0.3070
                                              0.5123
                                                                                            0.2549
                                        0.3103
                                                 0.2753
       0.0305
                       0.0629 0.0809 0.1712 0.1594
               0.0840
                                                        0.2690 0.1825
                                                                         0.1557 0.1220
```

NACAL 292 **RUN 38** DATE 14 OCT 80 TIME 03.20 RECOMP. NO. 1 DISK 1 PAGE 22 JOB PO. 11 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 8 JUL 80 23.25 LDGR ACCT 31302 P_{TS} $\mathbf{P}_{\mathbf{A}}$ MOD 32 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=0 AUG 2 14.77 14.257 SUMMARY PAGE PT NO ALPHA H H Q CLH CDH CMH YM RL **PTPFCH** PTPCBH PTPACH PHI THR UST DELAL WFT **THTH** THETA CMUTH CDR CI)HR 0.2879 -667.3797 1 10.2584 0.6231 0.3861 0.9962 0.1541 2526.4571 0.9378 0.9945 0.4157 1.3000 58.2186 102.0995 0.0467 0.2155 0.0015 0.0048 0.3013 2 -3.5580 10.5990 0.4770 0.0628 0.3529 -686.1646 2037.3668 0.9857 0.9961 0.9963 1.3000 53.5015 85.3891 0.3140 0.1544 0.4816 0.0033 0.0156 0.3373 3 -7.5945 10.7293 0.2791 0.3189 -0.0330 -707.1464 1344.1887 0.9951 0.9958 0.9956 1.3000 41.1890 61.7442 0.1775 0.3192 0.9820 0.0067 0.0321 0.2065 4 -11.263710.8143 0.0341 0.3150 -0.1415-627.8337 258.9330 0.9869 0.9968 0.9972 251 1.3000 6.1877 46.5264 0.0085 0.3524 1.0467 0.0071 0.0353 0.2797 5 0.3419 10.5360 0.6389 0.9059 0.9061 0.3936 0.1586 -694.4745 2643.0054 0.9875 1.2000 0.3372 58.3644 107.3400 0.4268 0.1020 0.0023 0.0103 0.2532 6 4.3134 10.5039 0.7506 0.4172 0.2319 -613.2448 3095.4123 0.9910 0.9963 0.9968 1.3000

0.1026

0.3211

0.2897

0.4104

0.2517

0.4477

0.1026

0.4528

0.3183

0.3184

0.7880

0.5172

0.2541

0.8334

-472.9229

-419.7207

-303.6694

-270.9985

0.0022

0.0055

0.0036

0.0017

0.0058

3463.3612

3979.3080

4160.5354

4378.9950

0.0104

0.9918

0.0296

0.9967

0.0257

0.9058

0.0104

0.9955

0.0324

0.4068

0.9961

0.4091

0.9973

0.4091

0.9948

0.4767

0.9961

0.5351

0.9069

0.9937

0.9970

0.9963

60.9308

10.4224

63,5200

10.4313

66.8921

10.4237

66.2864

10.4375

63.4783

7

8

9

10

8.1779

1.3000

12.0757

15.9813

19.8103

1.3000

1.3000

1.3000

122.4640

139.2350

156.9220

169.3227

180.1467

0.8808

1.0191

1.0954

1.1375

0.5050

0.4387

0.5963

0.4348

0.6919

0.4811

0.7477

0.5676

```
NACAL 292
              RUN 38 DATE 14 OCT 80 TIME 03.16 RECOMP. NO. 1
                                                                              DISK 1
- JOB NO. 11
                                                                                           PAGE 2
                 LDGR ACCT 31302
                                   CONTRACT 1631
                                                    SUB ACCT 10001 ACQ DATE 8 JUL 80 23.07
  MOD 32 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=0
I THIGH ATAD
                                                        0.3662
                                                   0.5791
                                                            0.4948
                                                   0.4052
                                                            0.4800
            0.4793 0.4986 0.5211 0.4862
                                                    0.4438
        0.4469
                                                            0.4531
                                      0.3889
     0.3740
                                                                        0.4625
                                                                                    0.4511
   0.4619
                                        0.0860
 0.5635
                                                                        0.4650
   0.5808
                                          0.5635
    0.5007
                                                                       0.4481
                                                                                      0.4642
        0.5261
             0.5423 0.5431 0.5489
                                                                          0.4639
                                  0.5602
                                           0.4460
                                                                                         0.4642
                                     0.5591
                                                                               0.4809
                                              0.4539
                                                                                          0.4611
                                       0.5474 0.4718
                                                                                    0.4803
       0.5005
               0.5067
                       0.5111
                               0.4974
                                       0.4980
                                               0.4961
                                                       0.5055
                                                                0.5005
                                                                        0.4930
                                                                                0.5024
```

```
NACAL 292
               RUN 38
                         DATE 14 OCT 80 TIME 03.18 RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                PAGE 14
                  LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
__JOB_NO. 11
                                                                                ACO DATE 8 JUL 80 23.21
   MOD 32 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=0
                           AUG 2
DATA POINT 7
                                                            0.4016
                                                       0.5853
                                                                 0.4964
                                                       0.4492
                                                                 0.4828
                     0.4824 0.5298 0.4937
                                                        0.4597
                                                                 0.4579
                                                                                          0.4648
          0.3958
                                         0.4288
                                                                               0.4581
      0.2194
    0.3017
                                           0.4706
                                                                             0.5379
  0.4619
    0.5796
                                             0.5722
                                                                            0.4687
                                                                                            0.4655
      0.5737
          0.5630
                       0.5574 0.5587
                                                                                0.4757
                                      0.5667
                                               0.4634
                                                                                               0.4611
                                                                                     0.4903
                                        0.5669
                                                  0.4664
                                                                                                 0.4675
                                                                                         0.4947
                                           0.5503
                                                     0.4713
         0.4955
                 0.4862
                          0.5055 0.5036 0.4968
                                                    0.5086
                                                             0.5105 0.5074
                                                                             0.5217
                                                                                      0.5124
```

NACAL 292	RUN 38 D	ATE 14 OCT 80 TIM	1E 03.19	PECOND	_	, -
JOB NO. 11	LDGR ACCT 31			RECOMP. NO.		
MOD 32 ALPH	A WIND ON RUN,C/E	3=70 DEG,FWD=54 DEG,AF	T=38 DEG+ME	AN≖46 DEG•CMU:	ACQ DAT	E 8 JUL 80 23.23
DATA POINT 8						
			0.3	970		
			0.5687	0.4982	15 <u> </u>	
*40			0.4361	0.4868		
0.3634	•4139 0•4438 0•	5092 0.4718 0.4562	0.4559	0.4580		
0.1994 0.2636		0.5086	• • • •	· · · · · · · · · · · · · · · · · · ·	0.4668	0.4597
0•4089 0•5567			•		0.5036	
0•5792 0•5661		0,5722		* · · · •	0.4668	0 • 4 6 4 5
254	0.5644 0.5605 (0.5550 0.5677 0.452	•	***************************************	0.4692	
<u> </u>			2 4699	* · · · · · · · · · · · · · · · · · · ·	0.4	0•4644 842
nar e		0.5500	0.4835	ren en e	·	0.4681
0.4781	0.4506 0.4799	0.4781 0.4718	0.4525 0.5	080 0.4774	0.5018 0	4912

NACAL 292	RUN 38	DATE 1	4 DCT 80	TIME	03.19	RECOMP. NO.	1 DIS	SK 1	PAGE 20
" JOB NO. 11	LDGR ACCT	31302	CONTRACT	1631	SUB A	ACCT 10001	ACQ DA	ATE 8 JUL 80	23.24
			EG,FWD=54 [EG,AFT=	38 DEG ₁ M	1EAN≖46 DEG,CMU≖	:0		
DATA POINT	10					•			
• • • • • • • • • • • • • • • • • • •					C	.4424			
and approximate the second sec				•	0.4419	5 0.4981			
					0.4103	3 0.4874			
	0.4338 0.433 3983	3 0.5061	0.4413 0.45	38	0.43	73 0.4583	0.4675	0.4560	
0.2321			0.	5921			0.4550		
0.3590 0.5275			·	0.5759		± • • · · · · •	0.4644	0.46	95
0.5860 0.	5806	690 0.562	21 0.5700	0.448	0		0.460	2 0.4639	-4686
	-	in the second	0.568	9 0.	4650			0.4690	0.4741
and the second s			0.	5522	0.4602	g Society # 1 1	• • •	, 33,10,1	
0.4	606 0.4637	0.4631	0.4519 0.	,4481	0.4600	0.5117 0.469	3 0.4787	0.4662	

NACAL	292 RU	N 39	DATE 14	NCT 80	TIME 03.29	RECOM	P. NO. 1	DISK	1	PAGE 22
JOB NO.	. 11	LOGR ACCT	31302	CONTRACT	1631 SUB	ACCT 1000	1	ACO DATE	8 JUL 8	0 23.51
MOD 3	33 ALPHA W		•C/B=70 DE6 AUG 2		G,AFT=38 DEG Summary page	•	EG,CMU=1	P _{TS} 14.79	P _A 14.257	
PT NO	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	YM THTH	RL CMUTH	PTPFCH COR	PTPCBH CDHR	РТРАСН
1	2.0854 1.3000	10.5306 84.3689	3.2234 463.0759	0.3178 2.0839	0.5644 5.3852	-74.8450 129.1438	13163.3050 0.9033	1.3955 0.5470	1.3975 -0.2292	
2	-2.0684 1.3000	10.6552 87.2783	2.8487 412.5509	0.1354 1.8278	0.4381 5.3953	-0.7658 129.5909	11924.3759 0.8958	1.3990 0.5453	1.3973 -0.4099	
3	-6.0895 1.3000	10.4629 -89.2365	2.5335 360.6005	-0.0337 1.6119	0.3267 5.3877	76.5827 129.3033	10521.9704	1.3972 0.5494	1.3962 -0.5831	
4 256	-9.7445 1.3000	10.4014 -85.2593	2.1912 310.4887	-0.1817 1.3859	0.2094 5.3885	268.6296 129.5253	9267.7184 0.9172	1.3966 0.5520	1.3093 -0.7337	
5	2.0771 1.3000	10.5671 84.5458	3.2107 462.7060	0.3065 2.0741	0.5682 5.3887	-121.0814 129.4809	13154.7243 0.9025	1.3978 0.5478	1.3976 -0.2413	
6	6.1609 1.3000	10.4398 81.5655	3.5541 509.2365	0.5270 2.3224	0.6881 5.3992	-248.6675 129.9526	14436.5590 0.9168	1.3983 0.5524	1.3976 -0.0254	
7	10.1931 1.3000	10.2094 78.8649	3.8347 541.7039	0.7547 2.5406	0.7976 5.3910	-392.8021 129.6870	15307.7637 0.9356	1.3971 0.5580	1.3980 0.1967	
В	14.1174 1.3000	10.1317 76.4719	4.0678 575.4990	0.97 £7 2.7351	0.8882 5.3816	-379.9400 129.7058	16263.5236	1.3994 0.5592	1.3952 0.4194	
9	18.2002 1.3000	10.1800 74.3612	4.2814 614.4664	1.1985 2.9213	0.9697 5.3984	-256.0193 130.2061	17218.5983 0.9421	1.3984 0.5603	1.3978 0.6381	
10	22.2310 1.3000	9.7988 72.3628	4.6177 644.5909	1 .46 81 3 .1 93 2	1.06±8 5.3864	-169.6873 129.8065	17928.9487 0.9757	1.3967 0.5702	1.3961 0.8979	

```
NACAL 292
              RUN 39 DATE 14 OCT 80 TIME 03.25 RECOMP. NO. 1 DISK 1
- JOB NO. 11
           LDGR ACCT 31302
                                  CONTRACT 1631
                                                  SUB ACCT 10001 ACQ DATE 8 JUL 80 23.31
MOD 33 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1
                        AUG 2
 DATA POINT 1
                                                     -0.3471
                                                          0.2616
                                                  0.5957
                                                 0.2202
                                                         0.1855
            0.3808 0.4083 0.5055 0.3808
                                                 0.3223 -0.0602
        0.2936
                                   -0.7579
                                                                                 0.5611
                                                                    -0.3780
     0.0187
   0.1365
                                      -0.0367
                                                                    -0.3216
 0.3827
   0.5659
                                        0.6127
                                                                   -0.1317
                                                                                   0.5239
     0.6082
        0.5962
             0.5945 0.5903 0.5903
                                                                        0-4049
                                 0.5997
                                          0.3357
                                                                                     0.5169
                                                                            0.5040
                                   0.6000
                                             0.3429
                                                                                       0.5395
                                                                                 0.5324
                                      0.5976 0.4585
       0.4407
               0.4226
                       0.4481 0.4357 0.4195 0.4276
                                                      0.5385
                                                              0.4207
                                                                      0.3540
                                                                              0.3902
```

. .

```
RUN 39 DATE 14 OCT 80
NACAL 292
                                              TIME 03.28
                                                              RECOMP. NO. 1 DISK 1
                                                                                               PAGE 14
                 LDGR ACCT 31302
JOB NO. 11
                                    CONTRACT 1631
                                                      SUB ACCT 10001
                                                                              ACQ DATE 8 JUL 80 23.45
 MOD 33 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1
                         AUG 2
DATA POINT 7
                                                         -0.0945
                                                      0.5231
                                                               0.2838
                                                               0.2312
                                                      0.1814
            0.2661 0.2406 0.4637 0.4008
                                                               0.0202
                                                      0.3160
        0.2904
                                       -0.4209
                                                                            -0.2714
                                                                                        0.0282
    0.0448
 -0.0557
                                         -0.0563
                                                                          -0.1207
 0.1633
  0.4247
                                            0.6115
                                                                          -0.0337
                                                                                           0.4999
    0.5741
        0.6022
                             0.5906
              0.5999 0.5969
                                                                              0.4108
                                    0.5951
                                              0.3356
                                                                                              0.5140
                                                                                   0.5083
                                       0.5991
                                                0.3622
                                                                                                0.5345
                                                                                         0.5333
                                          0.5934
                                                   0.4771
       0.4207
                0.3603
                        0.3883
                                 0.3821
                                          0.4014
                                                   0.3952
                                                           0.5360
                                                                    0.3952
                                                                                     0.3503
                                                                             0.3440
```

```
PAGE 16
                                                                 RECOMP. NO. 1
                                                                                     DISK 1
                                                 TIME 03.28
                            DATE 14 OCT 80
               RUN 39
NACAL 292
                                                                                 ACO DATE 8 JUL 80 23.46
                                                         SUB ACCT 10001
                                      CONTRACT 1631
                  LDGR ACCT 31302
JOB NO. 11
  MOD 33 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1
                           AUG 2
DATA POINT 8
                                                            -0.0484
                                                        6.5409
                                                                  0.3549
                                                        0.1315
                                                                  0.2886
                                                         0.3101
                                                                  0.1082
                             0.4425 0.3796
                                                                                            0.0189
                                                                                -0.3125
                                         -0.6305
         0.1907
    -0.2487
                                                                              -0.3750
                                           -0.0563
  -0.1911
 0.0037
                                                                                               0.3829
                                                                             -0.0827
                                              0.6077
   0.3311
     0.5390
         0.6078
                                                                                  0.4210
               0.6085 0.6056 0.5996
                                                                                                  0.5268
                                      0.5985
                                                0.3498
                                                                                       0.5262
   259
                                                   0.3722
                                         0.6011
                                                                                                    0.5376
                                                                                            0.5424
                                                      0.4833
                                            0.5952
                                                                                0.3478 0.3328
                                                                       0.3896
                                                              0.5311
                                           0.3727
                                                     0.3952
                                   0.3378
```

0.3316

0.3821

0.3116 0.2692

RECOMP. NO. 1 DISK 1 PAGE 20 RUN 39 DATE 14 OCT 80 TIME 03.29 NACAL 292 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 8 JUL 80 23.49 LDGR ACCT 31302 JOB NO. 11 MOD 33 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=1 AUG 2 DATA POINT 10 -0.1411 0.3339 0.3288 0.252 0.0602 0.2715 0.0508 0.1277 0.1084 0.3559 0.2580 0.5206 -0.2248 -0.3339 0.1427 0.0561 -0.2849 -0.0313 -0.2696-0.2156 0.6065 -0.0024 0.5060 0.1336 0.4170 0.5806 0.4470 0.5912 0.5920 0.5883 0.5060 0.5911 0.3615 0.5131 0.5915 0.4139 0.5239 0.5338 0.5932 0.5075

0.1676

0.2237

0.2125

0.2175

0.2730

0.3652

0.5198

JACAL	292 RU	IN 40	DATE 14	DCT 80	TIME 04.04	RECOMP	P. NO. 1	DISK	1 P	AGE 26
10B NO.	11	LDGR, ACCT	31302	CONTRACT	1631 SUB	ACCT 10001	i	ACO DATE	9 JUL 80	0.50
6 dow	4 ALPHA W		,C/B=70 DEG AUG 2	,FWD≖54 DE	6,AF1=38 DEG	,MEAN=46 DE	EG•CMU=2	P _{TS} 14.79 14	.257	
				:	SUMMARY PAGE					
טא די	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	YM ' THTH	RL CMUTH	PTPFCH CDR	PTPCEH CDFR	PTPACH
1	2.7057 1.3000	10.1473 -85.5061	4.5689 631.0259	-0.3270 2.6644		3210.0477 268.3853	18396.5235 1.9482	1.9240 0.8493	1.9223 -1.1763	1.9255
2	-1.4201 1.3000	10.2164 -81.7375	4.6824 577.7614	-0.5928 2.3658		3341.0373 268.7467	17075.6023 1.9188	1.9191 0.8432	1.9254 -1.4360	1.9209
3	-5.6044 1.2000	10.5164 -76.2665	3.5795 526.0926	-0.8748 2.0584		3551.5600 272.5044	15636.4113 1.9086	1.9354 0.8425	1.9253 -1.7173	1 = 9427
4 26	~5.5930 1.3000	10.3455 -76.3199	3.5924 519.2990	-0.8744 2.0652		3468.4650 267.6350	15474.7066 1.9055	1.9318 0.8393	1.9185 -1.7137	1.9119
5	-5.5508 1.3000	10.3191 -76.4031	3.6175 521.4120	-0.8749 2.0781		3463.5856 269.5422	15522.4684 1.9240		1.9235 -1.7198	1.9309
6	-9.3029 1.3000	10.6044 -71:1199	3.0990 471.5334	-1.05 \$9 1.7806		3708.4675 268.7440	14171.4684 1.8667		1.9238 -1.8909	1.9278
7	2.6822 1.3000	10.1935 85.5560	4.5009 624.7630	-0.3458 2.6256	-	3171.7317 268.6970	18264.2873 1.9416	1.9232 0.8477	1.9244 -1.1975	1.9249
8	6.7409 1.3000	10.2222 -89.6086	4.8982 679.7770	-0.0334 2.8940		2961.5196 268.0064	19719.2361 1.9311	1.9069 0.8453	1.9240 -0.8788	1.9238
9	10.8628 1.3000	9.9249 86.8666	5.3726 725.7336	0.2941 3.2059		2922.7042 269.0246	20878.3464	1.9260 0.8594	1.9217 -0.5653	1.9274
10	14.9555 1.3000	9.7601 83.5362	5.8264 776.9673	0.6601 3.5206		2925.2853 268.8702	22139.9566 2.0291	1.9264 0.8661	1,9236 -0,2060	1.9296

- 1

ACAL 292 RUN 40 DATE 14 DCT 80 TIME 04.05 RECOMP. NO. 1 DISK 1 PAGE 27

OB NO. 11 LDGR.ACCT 31302 CGNTRACT 1631 SUB ACCT 10001 ACQ DATE 9 JUL 80 0.50

MOD 34 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2 AUG 2

SUMMARY PAGE

T NO	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	MY HTHT ·	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	19.1084 1.3000	9•6590 80•0609	6.2466 831.6165	1.0946 3.8450	1.3531 8.1330	2848.6879 269.0040	23536.9330 2.0514	1.9229 0.8713	1.5236 0.2232	1.9273
12	23.2899 1.2000	9.6673 76.7416	6.5416 882.0599	1.5413	1.4505 8.1393	2804.9237 269.3415	24741.7440 2.0522	1.9207 0.8720	1.9265 0.6693	1.9234

U

RECOMP. NO. 1 ACAL 292 RUN 40 DATE 14 DCT 80 TIME 04.00 DISK 1 PAGE 2 OB NO. 11 CONTRACT 1631 **SUB ACCT 10001** ACQ DATE 9 JUL 80 0.19 LDGR ACCT 31302 MOD 34 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2 AUG 2 ATA POINT 1 -0.8050 0.5764 0.0950 -0.0007 0.0106 0.1684 0.3191 0.3628 0.4513 0.2805 -0.32100.2125 -1.9107 -1.2758 0.5248 -0.1348-2.1295 -0.0576 -0.00670.2630 0.6072 -1.5418 0.5125 0.5224 0.6055 0.6019 0.1756 0.6030 0.5962 0.5945 263 0.2019 0.5985 0.5012 0.4245 0.1307 0.6015 0.5244 0.4970 0.5954 0.3190

0.3534

0.5330

0.3291

0.3572

0.3266

0.3703

0.3590

0.3516

1,

0.3098

```
PAGE 18
                                                                                   DISK 1
                                                               RECOMP. NO. 1
                                               TIME 04.03
                           DATE 14 OCT 80
              RUN 40
IACAL 292
                                                       SUB ACCT 10001 ACQ DATE 9 JUL 80 0.44
                                    CONTRACT 1631
                LDGR ACCT 31302
JOB NO. 11
 MOD 34 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2
                          AUG 2
DATA POINT 9
                                                          -0.8515
                                                      0.5437
                                                                0.0843
                                                     -0.0240
                                                               -0.0136
                                                       0.1761 -0.3445
            0.1652 0.1951 0.4289
                                    0.3341
                                                                                          0.5071
                                                                              -1.2182
                                        -1 -4394
        0.1807
   -0.0361
                                                                            -1.9628
                                          -0.3431
 -0.2059
-0.0091
                                                                           -1.3959
                                                                                             0.5057
                                             0.6022
   0.3209
    0.5499
        0.6089
                                                                                0.2082
                      0.6004 0.5970
              0.6080
                                                                                                0.4972
                                               0.2354
                                     0.6015
                                                                                     0.4363
                                                 0.1710
                                        0.6033
                                                                                                  0.5208
                                                                                           0.5050
                                           0.5967
                                                     0.3597
                                                                                       0.2393
                                                                              0.2917
                                                                     0.3092
                                                    0.3291
                                                             0.5367
                                           0.3609
                                  0.2905
                0.2979
                         0.3142
        0.3640
```

OF FIRST QUALTRY

```
PAGE 20
                                                                                  DISK 1
                                                               RECOMP. NO. 1
                            DATE 14 DCT 80
                                               TEME 04.03
NACAL 292
               RUN 40
                                                                               ACO DATE 9 JUL 80 0.45
                                                       SUB ACCT 10001
                                     CONTRACT 1631
                 LDGR ACCT 31302
JOB NO. 11
 MOD 34 ALPHA WIND ON RUN.C/B=70 DEG.FWD=54 DEG.AFT=38 DEG.MEAN=46 DEG.CMU=2
                          AUG 2
DATA POINT 10
                                                          -0.8492
                                                      0.5381
                                                                0.0800
                                                     -0.0933
                                                               -0.0224
                                                       0.1571 - 0.3362
             0.0336 0.1278 0.3590 0.3067
                                                                             -1.2256
                                                                                         0.4915
                                        -1.4548
         0.0617
    -0.1832
                                                                            -2.0572
  -0.3946
                                          -0.3689
-0.2108
                                             0.6022
                                                                           -1.4584
                                                                                            0.5015
   0.1999
     0.4783
         0.5995
                                                                                0.2268
               0.6047 0.6038 0.6002
                                                                                               0.4950
                                     0.5982
                                               0.2075
   26
                                                                                    0.4505
                                        0.6007
                                                 0.1781
                                                                                                 0.5190
                                                                                          0.5089
                                           0.5974
                                                    0.3615
                                                  0.3291
                                                                                      0.2019
                                                           0.5361 0.2992 0.2842
                         0.2082
                                0.2605
                                         0.3279
        0.2468
                 0.2256
```

0.2668 0.1471

```
NACAL 292 RUN 40 DATE 14 DCT 80
                                           TIME 04.04
                                                         RECOMP. NO. 1
                                                                           DISK 1
                                                                                        PAGE 24
JOB NO. 11
            LDGR ACCT 31302
                                  CONTRACT 1631 SUB ACCT 10001
                                                                    ACQ DATE 9 JUL 30 0.47
 MOD 34 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=2
DATA POINT 12
                                                     -0.5285
                                                 0.4190
                                                          0.1776
                                                -0.2037
                                                          0.0404
          -0.0263 -0.0557 0.2668 0.2743
                                                 0.1548 -0.2306
      -0.0288
                                    -1.3530
   -0.0857
                                                                      -1.1643
                                                                                 0.5400
 -0.5515
                                     -0.3909
-0.4853
                                                                    -1.9420
 -0.0609
                                        0.6171
    0.3360
                                                                   -1.3114
                                                                                   0.5101
       0.5840
            0.6093 0.6152 0.6109
                                                                       0.2713
                                 0.6158
                                         0.2523
                                                                                      0.5000
                                   0.6152
                                                                            0.4819
                                            0.2467
                                                                                       0.5281
                                     0.6137
                                                                                 0.5322
                                              0.3926
      0.0698
              0.0935
                      0.0810 0.1147 0.3067 0.3017 0.5405 0.2693
```

DATE 14 OCT 80 TIME 04.14 RECOMP. NO. 1 DISK 1 PAGE 24 'ACAL 292 **RUN 41** LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 9 JUL 80 17.36 OB NO. 11 $\mathbf{P}_{\mathbf{A}}$ MOD 35 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4 AUG 2 14.5 14.233 SUMMARY PAGE ALPHA H ΩН CLH CDH CMH YM RL PTPFCH **PTPCBH** PTPACH ON T' THETA THRUST CDR CDF!R PHI DELAL WFT THTH CMUTH 0.9901 1 3.3184 5.2448 6.6304 -1.72075339.8493 13998.8680 1.9539 1.9665 1.9627 1.3000 -75.4515 487.7539 3.3046 8.2648 273.1824 1.1962 -2.9169 3.8366 5456.6653 13151.9724 2 -0.90315.3190 5.9570 -2.13740.8182 1.9632 1.9643 1.9617 1.3000 -70.26132.9515 8.2685 273.9523 3.7937 1.1904 -3.3279 457.0188 3 -5.0478 5.2142 5.3562 -2.5249 0.6557 5519.8464 12272.7263 1.9605 1.9618 1.9643 1.3000 -64.7604 427.2185 8.2420 273.5236 3.7912 1.1891 -3.71412.6369 -8.83595.5711 4.5987 -2.7054 0.4945 5606.0905 11553.7795 1.9585 1.9644 1.9624 1.3000 -59.5319 403.5439 2.2851 8.2426 274.0140 3.6229 1.1629 -3.8683 3.4104 1.0202 5335.9250 14034.9291 1.9578 1.9627 1.9661 5 5.1047 6. 8147 -1.77321.3000 -75.4143 487.9996 3.3690 8.2352 274.3801 3.9592 1.2162 -2.5895 7.4970 6 5.1614 7.2770 -1.2786 1.1626 5263.5403 14844.3858 1.9581 1,9619 1.9652 8.2272 1.3000 -80.0345 517.7263 3.6538 274.3099 3.9147 1.2092 -2.4878 7 11.6783 5.0872 7. 6664 -0.7809 1.3282 5233.4055 15602.1791 1.9568 1.9648 1.9603 8.2027 -1.968 1.3000 -84.3304545.9623 3.9949 274.0006 3.9673 1.2158 8 15.7329 5.0481 8.3253 -0.27511.4678 5245.0816 16267.9763 1.9592 1.9626 1,9643 1.3000 -88.1074570.8752 4.2936 8.2032 274.2490 4.0016 1.2217 -1.4969 9 1.9558 1.9567 20.1147 4.5630 9.3175 0.2478 1.6661 5382.2893 16374.0885 1.9583 -1.0295 1.3000 88.4765 577.4135 4.7924 8.1467 271.9784 4.3904 1.2773 10 24.1922 4.8106 9.4937 0.9465 1.7750 1.9620 1.9653 1.9639 5394.5177 17543.4172 1.3000 84.3060 623.1019 5.0573 8.1797 273.8353 4.1929 1.2491 -0.3025

CAL 292 RUN 41 DATE 14 OCT 80 TIME 04.14 RECOMP. NO. 1 DISK 1 PAGE 25

JB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 9 JUL 80 17.36

MOD 35 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4 AUG 2

SUMMARY PAGE

1 NO	ALPHA H PHI	O H THETA	CLH THRUST	C DH D EL A L	CMH WFT	MY . HTHT .	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	0.3016 1.2000	0.0665 71.2844	0.4382 0.6177	0.1484 0.2878	0.4629 0.0858	-15.2148 0.0802	75.3837 0.0889	1.0002 0.1124	1.0010	0.9996

```
DATE 14 OCT 80 TIME 04.10 RECOMP. NO. 1
                                                                              DISK 1
                                                                                           PAGE 2
             RUN 41
NACAL 292
                                                                           ACQ DATE 9 JUL 80 16.58
               LDGR ACCT 31302
                                                    SUB ACCT 10001
                                   CONTRACT 1631
JOB NO. 11
 MOD 35 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
                         AUG 2
DATA POINT 1
                                                       -0.5321
                                                    0.2404
                                                             0.0092
                                                   -0.3751
                                                            -0.0954
           0.1270 0.1494 0.2130 0.0361
                                                  -0.1576 -0.0194
                                                                                     0.2831
                                     -2.2315
                                                                          -1.3670
        0.0548
   -0.1714
                                                                        -2.8590
                                       -1.6370
  -0.0893
 0.0691
                                                                       -2.2015
                                                                                       0.2672
                                          0.3039
  0.2364
    0.3049
        0.3112
                                                                           -0.2133
              0.3114 0.3084 0.3041
                                                                                          0.2577
                                   0.3094
                                           -0.1318
                                                                                0.1440
                                      0.3103 -0.2357
                                                                                            0.2653
                                                                                     0.2227
                                        0.3058
                                                  0.0111
```

0.1021 0.1046

0.1008

0.0797

0.1108

. .

0.0959 0.2622 0.0847 0.0641 0.0716

```
NACAL 292 RUN 41 DATE 14 OCT 80 TIME 04.12 RECOMP. NO. 1
                                                                         DISK 1
                                                                                     PAGE 14
         LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 9 JUL 80 17.28
JOB NO. 11
 MOD 35 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
                       AUG 2
DATA POINT ?
                                                    -0.6331
                                                0.2361 - 0.0339
                                               -0.3492 -0.1240
          0.0143 0.0473 0.1868 0.0435
                                               -0.1426 -0.1267
       0.0411
                                   -1.9493
                                                                     -1.3879
                                                                               0.2775
   -0.1604
 -0.2350
                                     -1.4821
                                                                   -2.7978
-0.1120
                                       0.3020
  0.1145
                                                                  -2.1415
                                                                                0.2613
    0.2596
       0.3094
                                                                      -0.1941
             0.3131 0.3097 0.3094
                                0.3104 - 0.1122
                                                                                     0.2525
                                                                           0.1500
                                   0.3103 -0.2055
                                                                                      0.2636
                                                                              0.2254
                                     0.3067 0.0295
              0.0610 0.0940 0.0710 0.0984 0.0759
      0.1127
                                                     0.2696
                                                             0.0641
                                                                     0.0678 0.0242
```

.

ر

```
NACAL 292
             RUN 41
                      DATE 14 OCT 80
                                             TIME 04.13
                                                            RECOMP. NO. 1
                                                                               DISK 1
                                                                                            PAGE 16
                                   CONTRACT 1631
JOB NO. 11
                LDGR ACCT 31302
                                                     SUB ACCT 10001
                                                                      ACO DATE 9 JUL 80 17.30
 MOD 35 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
                         AUG 2
DATA POINT 8
                                                        -0.5983
                                                    0.2206
                                                           -0.0224
                                                   -0.3671
                                                            -0.1114
           -0.0104 0.0174 0.1743 0.0572
                                                    -0.1439 -0.1511
        0.0000
                                      -1.8599
                                                                           -1.3719
                                                                                      0.2771
   -0.1389
 -0.3367
                                        -1.4558
                                                                         -2.7605
-0.2197
  0.0431
                                           0.3064
                                                                        -2.1109
                                                                                         0.2608
    0.2199
        0.3074
              0.3114 0.3146 0.3092
                                                                           -0.1760
                                   0.3111 - 0.1091
                                                                                            0.2505
                                                                                 0.1596
                                  0.3112 -0.1842
                                                                                             0.2616
                                                                                       0.2278
                                         0.3109
                                                  0.0398
```

0.0660

0.2634

0.0504

0.0641

0.1326

0.0597

0.0741

0.0946

```
PAGE 20
                                                                                     DISK 1
                                                                 RECOMP. NO. 1
                                                 TIME 04.14
                            DATE 14 DCT 80
              RUN 41
NACAL 292
                                                                                  ACO DATE 9 JUL 80 17-33
                                                         SUB ACCT 10001
                                      CONTRACT 1631
                 LDGR ACCT 31302
JOB NO. 11
 MOD 35 ALPHA WIND ON RUN, C/B=70 DEG, FWD=54 DEG, AFT=38 DEG, MEAN=46 DEG, CMU=4
                           AUG 2
DATA POINT 10
                                                            -0.5679
                                                                  -0.0092
                                                        0.1871
                                                                  -0.0830
                                                        -0.4384
                                                                 -0.1911
                                                        -0.1568
            -0.1377 -0.1346 0.1208
                                     0.0685
                                                                                             0.2678
                                                                                 -1.3658
                                         -1.8905
        -0.1071
                                                                               -2.6943
    -0.2228
                                           -1.5176
  -0.4683
                                                                                                0.2548
-0.4156
                                                                              -2.0760
                                               0.3014
  -0.1240
     0.1145
                                                                                  -0.1662
         0.2908
               0.3057 0.3091 0.3092
                                                                                                   0.2466
                                       0.3086
                                                -0.1042
                                                                                        0.1608
   272
                                          0.3066
                                                   -0.1823
                                                                                                      0.2604
                                                                                              0.2298
                                                       0.0451
                                             0.3077
                                                                                 0.0442 -0.0361
                                                               0.2684
                                                                        0.0323
                                    0.0361
                                             0.1008
                                                      0.0560
```

0.0037 -0.0097 -0.0514

NACAL 292 RUN 43 DATE 14 DCT 80 TIME 04.32 RECOMP. NO. 1 DISK 1 PAGE 22

JDB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 10 JUL 80 0.43

MOD 37 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=0 PASS 14.76 14.247

SUMMARY PAGE										
PT NO	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHF	РТРАСЧ
1	0.4071 1.4000	10,7967 49,9259	044586 87.1183	0.3857 0.3014	0.1656 0.2029	-807.0567 0.5447	2022.8095	0.9909 0.0249	0.5973 0.3408	0.9970
2	-3.5593 1.4000	10.4632 39.2159	0.3112 69.7788	0.3800 0.1987	0.4685 0.1590	-909.6471 0.4161	1422.7347 0.0029	0.9900 0.0197	0.5964 0.3562	0.9955
3	-7.5584 1.4000	10.4029 17.4608	0.1073 50.5112	0.3411 0.0580	-0.0448 0.1820	-793.4837 0.5062	729.7185 0.0035	0.9909 0.0227	0.5972 0.3164	0.9957
4 273	-11.1677 1.4000	10.5538 -28.2644	-0.1780 53.8584	0.3310 -0.1330	-0.1610 0.2323	-656.5820 0.5117	-554.4681 0.0035	0.9929 0.0287	0.5984 0.3023	0.4979
5	0.3571 1.4000	10.4844 50.2910	0.46F2 86.5163	0.3875 0.3080	0.1635 0.2925	-765.9921 0.8063	1989.2288 0.0056	0.9909 0.0363	0.9969 0.3511	0.9967
6	4.3089 1.4000	10.5275 56.4884	0.6034 103.4396	0.3995 0.4022	0.2595 0.0764	-686.1857 0.2561	2555.6102 0.0017	0.9908 0.0094	0.6965 0.3901	0.9961
7	8.2650 1.4000	10.3346 61.2349	0.7577 121.1725	0.4142 0.5099	0.3486 0.2026	-553.8008 0.5773	3059.3051 0.0041	0.9917 0.0253	0.4965 0.3888	0.9041
8	12.2243 1.4000	10.1879 65.2323	1.0088 153.6751	0.4654 0.6866	0.4476 0.2001	-612.6668 0.4809	3835.7923 0.0034	0.9957 0.0252	0.5974	0.9057
9	16.1120 1.4000	10.1886 62.8944	1.0434 162.1368	0.5340 0.7152	0.4483 0.1572	-579.4464 0.2805	4022.3208 0.0027	0.9963 0.0198	0.5970 0.5142	0.9967
10	19.9387 1.4000	10.2439 60.5686	1.0401 166.0906	0 •5 86 8 0 •71 65	0.4490 0.0943	-285.5372 0.2335	3996.3400 0.0016	0.9963 0.9118	0.9908 0.5749	0.9970

NACAL 292 RUN 43 DATE 14	DCT 80 TIME	04,28	RECOMP. NO.	1 DISK	1 PAGE 2
JOB NO. 11 LDGR ACCT 31302	CONTRACT 1631	SUB ACC	T 10001	ACQ DATE	10 JUL 80 0.27
MOD 37 ALPHA WIND ON RUN, C/B=70 DE AUG 2	EG,FWD=66 DEG,AFT=	34 DEG,MEA	N=50 DEG•C∺U≖0)	
DATA POINT 1					
		0.3	763		
	••	0.5946	0.5036	· · · · · · · · · · · · · · · · · · ·	
		0.4513	0.4943		
0.4989 0.5051 0.5089 0.4640	0.5126	0.4680	0.4736.	0.4590	0.4686
0.3929	0.4340			0.4340	
0.5794 0.5879 0.5106	0,4565	• . •		0.4103	0.4747
0.5349 0.5537 0.5584 0.568	6 0.5762 0.4592	<u>. </u>		0.4487	0.4778
274	0.5757 0.4	501			0.4768 0.4838
0.5120 0.5176 0.5176 0		0.4447	5189 0.5238	0.5132	0.5182

NACAL 292	RUN 43	DATE 14	OCT 80	TIME	04.30	RECOMP. NO) • L	DISK	1	PAGE 14
JOB MO. 11	LDGR CC	T 31302	CONTRACT	1631	SUB AC	CT 10001	A	CQ DATE	10 JUL	80 0.39
MCD 37 ALP	HA WIND ON RU	N,C/B=70 DE0 AnG 2	;FWD=66 DI	EG,AFT=	34 DEG,ME	AN=50 DEG•CM	1U≖0		·	
DATA POINT 7	,							*		
					0.	3824				
			•		0.5802	0.4900				
			-		0.4156	0.4892				
0.38	0.4428 0.460 16	2 0.4989 (0 • 4952 0 • 4602	2.	0.4470	0.4662	0.	452 7	0.4558	3
0.2101 0.2855 0.4478			0.42	266			0.43	28		
0.5748 0.5700			0	•4465			0.401	6	0 • 4	4635
0.55 275	662 0•54€9 0•5!		0.5714	0,4470			0	.4425 0.4	471	0.4674
		- 12 <u>-</u> 44	0.5723		399 0•4306	r wal mare - own a supplication ye (A.) God	Paraka Kraw k magamat	www.communication.com	0.46	0.4674 77
0.483	9 0.4889 (0.4914 0.4	889 0.49	995 0	.5026 0	.5064 0.50	51 0.4	964 0	•5001	

```
RECOMP. NO. 1
                                                                                DISK 1
                                                                                              PAGE 16
              RUN 43
                           DATE 14 OCT 80 TIME 04.31
NACAL 292
                                                      SUB ACCT 10001 ACO DATE 10 JUL 80 0.40
             LDGR ACCT 31302
                                    CONTRACT 1631
JOB NO. 11
 MOD 37 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=0
                         AUG 2
DATA POINT 8
                                                         0.3990
                                                     0.5655
                                                              0.4923
                                                     0.4219
                                                              0.4858
            0.4166 0.4135 0.4814 0.4789
                                                     0.4395
                                                              0.4737
                                                                             0.4527
                                                                                       0.4623
                                        0.4515
        0.3667
    0.1409
                                          0.4378
                                                                           0.4577
  0.2164
 0.3916
                                                                          0.4234
                                                                                          0.4672
                                            0.4465
  0.5462
    0.5757
        0.5633
                                                                              0.4618
                     0.5570 0.5587
              0.5618
                                             0.4431
                                                                                             0.4691
                                    0.5540
                                                                                  0.4666
                                       0.5540
                                                0.4361
                                                                                               0.4694
                                                                                        0.4683
                                          0.5516
                                                   0.4388
```

0.4640

į.

0.4746 0.4796

0.4527

0.4552

0.4490

0.4796

0.5039

0.4721 0.4902

PAGE 20

```
CONTRACT 1631 SUB ACCT 10001 ACO DATE 10 JUL 80 0.42
JOB NO. 11 LDGR ACCT 31302
  MOD 37 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=0
                          AUG 2
DATA POINT 10
                                                          0.4411
                                                      0.4327
                                                               0.4855
                                                      0.4259
                                                               0.4722
            0.3779 0.4216 0.4690 0.4559
                                                      0.4324
                                                               0.4535
         0.3792
                                        0.4453
                                                                              0.4496
                                                                                        0.4474
    0.2108
   0.2070
                                          0.4415
                                                                           0.4540
 0.3392
   0.5065
                                            0.4453
                                                                           0.4590
                                                                                           0.4476
     0.5/45
        0.5703
                      0.5609 0.5570
                                                                               0.4487
                                    0.5499
                                              0.4597
                                                                                              0.4598
                                                                                   0.4484
                                       0.5480
                                                 0.4615
                                                                                                0.4628
                                                                                         0.4474
                                          0.5463
                                                    0.4515
        0.4484
                0.4403
                         0.4440
                                 0.4440
                                          0.4397
                                                   0.4390
                                                           0.4914
                                                                    0.4478 0.4384 0.4552
```

DATE 14 OCT 80 TIME 04.32

NACAL 292

RUN 43

RECOMP. NO. 1

DISK 1

DISK 1 PAGE 22 RUN 44 DATE 14 NCT 80 TIME 04.41 RECOMP. NO. 1 **ACAL 292** ACO DATE 10 JUL 80 17.36 **SUB ACCT 10001** DB NO. 11 LDGR ACCT 31302 CONTRACT 1631 $^{P}_{A}$ MOD 38 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1 AUG 2 14.208 14.73 SUMMARY PAGE ΩН CLH C DH CMH YM RL **PTPFCH** PTPCBH **PTPACH** T NO ALPHA H CDHR CMUTH CDR PHI THETA THRUST DELAL WFT HIHT 1.4027 1.3971 2.2294 10.2673 3.4732 0.2869 0.8092 -120.7689 14258.9802 1.3965 1 485.7896 2.2202 5.4094 130,5521 0.9365 0.6894 -0.4024 1.4000 85.2764 1.3966 -49.5191 13023.0393 1.3981 1.3987 2 -1.8290 10.3635 3.1080 0.0968 0.6900 -0.5886 130.2080 0.6855 437.4971 1.9718 5.3956 0.9254 1.4000 88.2153 54.0708 11694.8188 3 -5.C586 2.7288 -0.0969 0.5531 1.3993 1.3995 1.4000 10.4174 1.4000 -87.9661 386.1783 1.7170 5.3952 130.4667 0.9225 0.6839 -0.7808 0.4358 241.5429 10422.3562 1.3936 1.4002 1.3987 4 -9.6013 10.4032 2.3890 -0.2381 5.3774 129.9361 0.9199 0.6826 -0.9207 1.4000 -84.2078 339.0831 1.4962 1.3561 1.4009 1.3974 5 2.2827 10.2752 3.4463 0.2788 0.8053 -133.7957 14170.1613 0.6882 - 0.40941.4000 85.2737 482.3224 2.2032 5.3663 130.2600 0.9337

0.9591

5.3939

1.0472

5.3889

1.1227

5.3727

1.1809

5.3665

1.2241

5.3638

-253.8419 15404.9369

-288.5414 16437.6535

-355.8877 17279.1849

-321.2295 18099.8975

-171.7987 18716.0944

0.9721

0.9518

0.9487

0.9659

0.9783

130.4916

130.3764

130.1353

130.0806

130.1927

1.3961

1.3969

0.6953

1.3970

0.6931

1.3583

0.6988

1.3996

0.7027

0.7030 - 0.1847

1.4011

1.4005

0.0289

1.4003

0.2815

1.4601

0.5501

1.4019

0.7927

1.3967

1.3964

1.3984

1.3090

1.3991

Ą.

0.5182

2.5161

0.7243

2.6775

0.9746

2.8682

1.2489

3.0964

1.4954

3.2859

9.8875

82.4379

10.0887

79.9752

10.1032

77.2709

9.9195

74.7413

9.8024

72.6471

6

7

8

9

10

6.3609

1.4000

10.3609

1.4000

14,2939

1.4000

18.3730

1.4000

22.3532

1.4000

3.9039

4.0973

4.3147

4.571.5

4.7857

528.6318

569.8949

606.7353

639.1112

```
RUN 44 DATE 14 OCT 80 TIME 04.37
 NACAL 292
                                                        RECOMP. NO. 1
                                                                         DISK 1
                                 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 10 JUL 80 17.11
__JOB NO. 11
              LDGR ACCT 31302
  MOD 38 ALPHA WIND ON RUN.C/BA70 DEG.FWD.66 DEG.AFT=34 DEG.MEAN=50 DEG.CMU=1
                        AUG 2
 DATA POINT 1
                                                    -0.5295
                                               0.5188
                                                         0.1233
                                               -0.2075
                                                         0.0263
           0.3296 0.3646 0.4495 0.2397
                                                0.0629
                                                        -0.1036
                                                                -0.9414
       0.2253
                                                                               0.5458
                                   -1.4312
    -0.1166
   0.0006
                                                                   -1.4054
                                     -1.5171
 0.2703
   0.4996
                                       0.2747
                                                                  -0.8536 0.5091
     0.5875
        0.5845
             0.5869 0.5822 0.5801
                                                                      0.2678
                                 0.5869 0.1437
                                                                                    0.4961
                                                                           0.4461
                                   0.5901
                                            0.2431
                                                                                      0.5115
                                      0.5818 0.4095
       0.4033
                                      0.3165 0.3146 0.5194 0.2965
               0.3515
                       0.3009
                              0.3346
                                                                     0.2753 0.2709
```

```
RUN 44 DATE 14 OCT 80 TIME 04.39 RECOMP. NO. 1
 NACAL 292
                                                                      DISK 1
                                CONTRACT 1631 SUB ACCT 10001 ACO DATE 10 JUL 80 17.30
JOB NO. 11 LDGR ACCT 31302
  MOD 38 ALPHA WIND ON RUN, C/B=70 DEG, FWD=62 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1
                       AUG 2
 DATA POINT 7
                                                  -0.5180
                                             0.5035 0.1187
                                              -0.1554 0.0308
            0.1748 0.2160 0.4002 0.3021
                                              0.1304 -0.1398
                                                              -0.8273
                                  -C.8991
         0.2097
                                                                          0.5439
     -0.0589
   -0.2049
                                    -1.0445
                                                                -1.1507
 0.0000
                                    0.4245
    0.3434
                                                               -0.6186 0.5009
     0.5239
         0.5821
              0.5858 0.5836 0.5776
                                0.5836 0.1823
                              0.5852 0.2911
                                                                                  0.5092
                                                                           0.4961
                                 0.5816 0.4481
               0.2996 0.2665 0.2984 0.3234 0.3046 0.5269 0.2809 0.2697 0.2085
        0.3895
```

•

1

•							·
Nacal 292	RUN 44	DATE 14 OCT 80	TIME	04.40	RECOMP. NO.		
•	LDGR ACCT			SUB AC	CT 10001	ACO DATE	10 JUL 80 17.31
" JOB NO. 11	LUGK ACCI					lm1	
MOD 38 ALP	HA WIND ON RUN,	C/B=70 DEG.FWD=66	S DEG AFT	=34 DEG +ME	STOPES DESIGN		
DATA POINT 8	J						
a-+				-0.	.5104		
or for a second			من ينس	0.4979	0.0887	entante e production de la company de la co	•
				-0.1428	0.0291	•	
0.10	0.1086 0.1610	0.3602 0.2753	8346	0.150	2 -0,1123	-0.7401	0.5341
0.2602	U 7 G		0.9518			-0.9911	
-0.3228		_			e e e e e e e e e e e e e e e e e e e	-0.4731	0.5012
-0.1522 0.2326 0.4759			0.4807			-0-7 (31	
0.4129	785				and the second second of the s	0.3791	0.4945
23 23 23	0.5887 0.58	61 0.5813 0.5867	0.239	95	ن المعلقة الله الله الله الله الله الله الله الل	O.	4765
AND THE PROPERTY OF THE PROPER			5876 0	.3274			0.51° 0.5003
generalization region of the large of			0.5850	0.4658	g programme of the control	a common a p	
0.3	583 0.2871 (0.2547 0.3159	0.3046	0.3028	0.5269 0.2	715 0.2722	0.1972
Annual State of the Control of the C					g a company services or	entropies de la companya de la comp	

ing the second of the second o

```
NACAL 292
               RUN 44 DATE 14 OCT 80 TIME 04.41 RECOMP. NO. 1
                                                                             DISK 1
                                                                                         PAGE 20
                                                 SUB ACCT 10001
                                                                         ACO DATE 10 JUL 80 17.35
JOB NO. 11
                LDGR ACCT 31302
                                   CONTRACT 1631
   MOD 38 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=1
                          AUG 2
DATA POINT 10
                                                      -0.2543
                                                   0.2939
                                                            0.2513
                                                  -0.0757
                                                            0.1383
                    0.0880 0.2959 0.1748
                                                   0.2175
                                                            0.0446
         0.0899
                                      -0.4639
                                                                       -0.4382
                                                                                 0.5671
      0.0000
   -0.3479
                                       -0.3854
                                                                      -0.6167
  -0.3044
    0.0571
                                          0.5606
                                                                      -0.1902
                                                                                    0.5104
      0.3686
         0.5622
                      0.5858 0.5830
               0.5839
                                                                          0.4615
                                   0.5842
                                            0.3433
                                                                                        0.5006
                                                                               0.5155
                                      0.5847
                                               0.4302
                                                                                          0.5234
                                                                                    0.5290
                                     0.5849 0.5247
        0.2060 0.1954 0.2085 0.1298 0.2072 0.3084 0.525
                                                                0.2547
                                                                        0.2584
```

NACAL 292 RUN 45 DATE 15 OCT 80 TIME 00.51 RECOMP. NO. 1 DISK 1 PAGE 22

JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001

ACQ DATE 10 JUL 80 18.08

MOD 39 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=2 P_{T} S 14.74 14.213

SUMMARY PAGE

					2 Ur	MART PAGE					
PT N	งด	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	ү ү НТНТ [.]	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
3		2.8416 1.4600	10.1042 -85.1537	4.8359 665.7586	-0.4100 2.7774	1.0698 8.1647	3482.1594 269.8659	19696.7243 1.9673	1.9240 1.0517	1.5289 -1.4617	1.9248
2	•	-1.3017 1.4000	10.1376 -80.7874	4.3565 607.4185	-0.7065 2.4816	0.9178 8.1558	3713,7499 269,6864	18242.0550 1.9595	1.9253 1.0494	1.5276 -1.7559	1.9263
2	<u>;</u>	-5.5160 1.4000	10.2042 -76.0232	3.7897 546.3062	-0.9425 2.1553	0.7533 8.1414	3580.1973 269.2958	16557.9251 1.9250	1.9256 1.0391	1.5270 -1.9#17	1.9268
	283	-9.2023 1.4000	10.4014 -71.5334	3.3259 495.1595	-1.1106 1.8919	0.6052 8.1428	3572.0063 269.0696	15177.3858 1.9054	1.9178 1.0346	1.9244 -2.1453	1.9274
5	5	2.7830 1.4000	10.0822 -84.8166	4.8187 662.2835	-0.4371 2.7631	1.0736 8.1419	3513.2672 269.4026	19612.3542 1.9682	1.9217 1.0514	1.5271 -1.4885	1.9268
ć	5	ۥ9534 1•4000	9.8377 -88.4830	5.3548 715.4311	-0.1418 3.0863	1.2291 8.1539	3573.2529 270.0939	20981.7283	1.9218 1.0662	1.9292 -1.2080	1.9282
1	<i>i</i>	11.0241 1.4000	9,7443 87,9907	5.7638 762.9643	0.2022 3.3633	1.3734 8.1545	3561.4055 70.0244	22111.4330 2.0411	1.9219 1.0719	1.5282 -0.8697	1.9272
8	3	15.1024 1.4000	9.6811 84.2092	6.1049 806.4937	0.6191 3.6341	1.5028 8.1337	3151.6761 269.5264	23045.0039 2.0507	1.9222 1.0731	1.9291 -0.4539	1.9274
¢	9	19.1645 1.4000	9.6753 81.1094	6.43°2 856.0920	1.0072 3.9009	1.6048 8.1383	3280.7639 269.6226	24419.4133 2.0526	J.4212 1.0743	1.5267	1.9269
10)	23.3217	9.251 <i>2</i> 78.2320	6.9282 888.8296	1.4433 4.2538	1.7365 8.1363	3510.7327 269.7679	25124.3700 2.1479	1.9220 1.0988	1.0302 0.3444	1.9275

```
NACAL 292 RUN 45 DATE 15 OCT 80 TIME 00.47 RECOMP. NO. 1
                                                                  DISK 1 PAGE 2
- JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 10 JUL 80 17.43
 MOD 39 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=2
                     AUG 2
 DATA POINT 1
                                               -0.8511
                                            0.4072
                                                  -0.0330
                                           -1.0547 -0.1487
           0.2703 0.3196 0.3621 0.0536
                                          -0.4247 -0.1645
        0.1479
                                -3.3193 -2.2685 0.5816
    -0.2596
  -0.1473
                                  -3.8189
                                                           -4.0607
  0.1735
                                                          -2.8178 0.5323
   0.4718
    0.5951
       0.6049
            0.6022 0.5974 0.5975
                                                               -0.1142
                             0.6018 -0.3213
                           0.6028 -0.1717
                                                                             0.5301
                               0.5977 0.2601
       0.3303 0.2091 0.0999 0.2147 0.1904 0.1823 0.5357 0.1479 0.1660 0.1429
```

NACAL 292 RUN 45 DATE	15 OCT 80 TIME	00.50 RECOMP. R	NO. 1 DISK I	PAGE 14
JOB NO. 11 LDGR ACCT 31302	CONTRACT 1631	SUB ACCT 10001	ACQ DATE 1	0 JUL 80 18.03
MOD 39 ALPHA WIND ON RUN, C/B=70 Aug 2	DEG, FWU#66 DEG,AFT	#34 DEG,MEAN≖50 DEG.(CMU=2) 5B
TATA POINT 7	, spi pp s y Marian 1989		g was a second was ex-	
		-0.8718		
andrain, Strayto .	per en Ela matera montreren	0.3913 -0.0595	e annum per suddan i vez y	control e · see
And the same of th	**************************************	-0.99160.1860_	(A =	
0.0505 0.1061 0.332 0.0892		-0.3870 -0.1438	-2.1948	0.5709
-0.1761 -0.3848	-3.3997		~3. 8864	
-0.1417 0.2623 0.4978 0.5963	0.1941		-2.6932	0.5206
0.5983 0.5960 0.5	900 0•5988 - 0•296	5	-0.0871 0.34	0.5047 75
	6.5975 -0.			0.5210
	0.5944	0.2811		
0.3346 0.1860 0.0724	0.1642 0.1948	0.1523 0.5307 0.	1130 0.1567 0.0	0499 _.
	ing and the second seco	Ny faritana amin'ny fivondronan'ny f		
•	magnetic committee of the second of the company	and a lamining itsir years in the control of the december day.	g do estimation (461) (Milletti Million -	

The state of the s

ings organization governor suprame or stransvision archive, where constant the constant of

1 1 1 m

```
DATE 15 OCT 80 TIME 00.50 RECOMP. NO. 1
                                                                            DISK 1
                                                                                       PAGE 16
NACAL 292
          RUN 45
                                                   SUB ACCT 10001 ACO DATE 10 JUL 80 18.04
                LDGR ACCT 31302
                                  CONTRACT 1631
JOB NO. 11
 MOD 39 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=2
                        AUG 2
DATA POINT 8
                                                      -0.8241
                                                  0.3764
                                                          -0.0471
                                                 -0.9482 -0.1432
                                                 -0.3538 -0.1934
                   0.0449 0.3109 0.1048
                                                                       -2.0727
                                                                                  0.5687
       -0.0104
                                     -2.7436
   -0.3320
                                                                      -3.7403
  -0.5554
                                      -3.0210
-0.3068
                                         0.3228
                                                                     -2.6085
                                                                                    0.5229
   0.1233
    0.4378
        0.5890
             0.6045 0.6012 0.5951
                                                                        -0.0422
                                  0.5989 -0.2240
                                                                                        0.5069
                                     0.5980 -0.0742
                                                                                         0.5227
                                       0.5971 0.3138
               0.1848 0.0262 0.2110 0.1685 0.1542
       0.3521
                                                      0.5344 0.1148 0.1692 0.0487
```

NACAL 292	RUN 45	DATE 15 NCT 80	TIMF 00.51	RECOMP. NO.	1 DISK 1	PAGE 20
- JOB NO. 11	LDGR ACCT	31302 CONTRACT	1631 SUB AG	CCT 10001	ACO DATE 1	0 JUL 80 18.07
MOD 39 AL	PHA WIND ON RUN.	C/B=70 DEG, FWD=66 L AUG 2	DEG.+AFT.#34 DEG.+MI	EAN=50 DEG,CMU=	-	ing departs to tage
DATA POINT 1	0			· · · · · · · · · · · · · · · · · · ·	om kilosti talan 1 (g) — ga 1 (s) — ga kutu (s) 1 (k) (s) (s) (s) (s)	
			-0	.6975		
distance and the second		a de desente de la compansión de la comp	0.2754	0.0141		waa apar- as a ⊄a'ama
				-0,0814		
	-0.1160 -0.1178	0.2023 0.1336				
-0.0 -0.1872	963	-2 •181	. 9	er de de la companie de de de companie de de de companie de de de companie de	1.8984	0,5466
-0.6536		- 2 •6	220		2 //22	
-0.6260					-3.4433	
-0.1566	•		.4127	2023 MANOR A	-2-2930	0.5078
0.2439						045010
0.5	525					-
0.5	525 0•5798 0•586	66 0.5895		THE STATE ST	0.0100	
Manageris - III -	0.5798 0.586	0.5895 0.5890	-0.1323			0.4948
28	525 0.5798 0.586	0.5890	-0.1323	. 0		0.4948
Manageris - III -	525 0•5798 0•586	0.5895 0.5890 0.5900	-0.1323			0.4948
Manageris - III -	525 0.5798 0.586	0.5890	-0.1323 0 0.0046		6 ₄ 392	0.4948 0 0.5104
Manageris - III -	525 0.5798 0.586	0.5890	-0.1323		G , 392	0.4948 0 0.5104
Manageris - III -	525 0•5798 0•586	0.5890	-0.1323 0 0.0046		6 ₄ 392	0.4948 0 0.5104
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655
28.	0.5798 0.586	0.5890	-0.1323 0 0.0046 5884 0.3571	The second control of	€ ₃ 392	0.4948 0 0.5104 0.4655

ACAL		UN 46	DATE 15	NCT 80	TIME 01.0	O1 RECOMP. NO	• 1	DISK	1	DACE 34
DA NO	• 11	LDGR ACCT	31302	CONTRACT	1421					PAGE 24
MOD	68 ALDELA					JE ACCT 10001		ACD DATE	10 JUL 8	0 18.49
7.(7)	TO ALPHA	MIND ON KUN	•C/B=70 DE AUG 2	G∙F₩&=66 DE	G•AFT=34 DE	G,MEAN≖50 DEG,CM	j=4.	$^{\mathtt{P}}_{\mathtt{T}_{\mathbf{S}}}$	$P_{\mathbf{A}}$	
					SUMMARY PAG			14.47	14.213	
€ NO	ALPHA H	ОН	CLH	сон	СМН					
	5H1	THETA	THRUST	DELAL		YM . THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
. 1	3.4498		7.2481	-2.1059	1.3637	£754 0150 have			CITIK	
	1.4000	-73.7988	494.7813	3.4775					1.9642	1.9834
2	3.4003	4.8953	7 1104			2011119 ()	•4294	0.1545	-2.2604	
	1.4000		7.1136 491.9813	-2.0484			•5590	1.9573	1.9644	1 oraș
_			421.012	3.4357	8.1568	A17	.1197			1.9599
3	-0.7249		6.4662	-2.4043	1.1727	5570 4200 12745				
	1.4000	-69.6034	466.4381	3.1158				1.9595	1.9647	1.9638
4	-4.9770	5.0701	F (222				.0541	1.5144	-3.9187	
	1.4000	-64.3294	5.6322 430.1362	-2.7070 2.7263			. 7952	1.9560	1.9613	1.9638
5 5			150 11502	2 • 1 2 0 3	8.1372		9678	1.4962	-4.2033	1 4 70.58
2 00	-8.7280	5.1348	5.0168	-3.0261	0.7882	5674.0915 12057	2722			
	1.4000	-58,9013	408.4265	2.4246	8.1610		• 3720 • 9358	1.9594	1.9674	1.9672
6	3.4381	4.9671	6.9707					1.4912	-4.5173	
	1.4000	-74.2073	488.5026	-1.9715 3.3938			2716	1.9570	1.9649	1.9664
7	7 5550		,	2 62 73 6	8.1583	274.1091 4	0648	1.5157	-3.4873	1 0 2004
	7.5538 1.4000	4.9229	7.6100	-1.5323	1.4710	5619.3444 15072	5010	1 2545		
	244000	-78.6152	518.8172	3.7305	8.1624		1053	1.9568 1.5237	1.9663	1.9668
R 🕴	11.7330	4.7997	8.2221	-1.0344	• •			1.025	-3.0560	
_ {	1.4000	-82.8288	539.9873	4.0711	200000	5545.2224 15635.		1.9539	1.9659	1.9623
9	15.8529			•	8.1443	273.6309 4.	1993	1.5399	-2.5744	20 7.123
,	1.4000	4.6822	8.9089	-0.4847	1.8325	5604.9556 16281.	6000	1 0/15	•	
	# -113()()	-86.8858	567.1515	4 • 4 5 4 9	8.1518		3135	1.9618 1.5607	1.9632	1.9687
10	19.9981	4.7000	9.2192	0.1830	1 0500	·		1.000	-c+V424	
	1.4000	88.8623	588.3702	4.7401	1.9599 8.1601	77 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	4684 3007	1.9602 1.5595	1.9655 -1.3764	1.9624

```
NACAL 292 RUN 46 DATE 15 OCT 80 TIME 00.57 RECOMP. NO. 1
JOB NO. 11
                                                                     DISK 1
             LDGR ACCT 31302
                                                                                PAGE 2
                               CONTRACT 1631
                                              SUB ACCT 10001
 MOD 40 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, MEAN=50 DEG, CMU=4
                                                             ACO DATE 10 JUL 80 18.14
DATA POINT 1
                                                -0.4265
                                            -0.0053 -0.0845
                                            -1.4822 -0.1578
          0.0998 0.1192 0.1398 -0.1706
                                             -0.7775 -0.1887
       0.0112
                            -3.5731
   -0.2154
                                                        -0.1442
                                                                        0.2914
                                  -4.2150
0.0262
                                                              -4.4016
  0.2053
                                 -0.1460
   0.2817
                                                             -3,2245
     0.2920
                                                                          0.2683
           0.2910 0.2900 0.2846
                              0.2888 -0.6455
                                0.2905 -0.4739
                                                               0.0368
                                                                               0.2577
                                0.2873 -0.0306
     0.0811 -0.0239 -0.0816 -0.0257 -0.0368 -0.0503 0.2541 -0.0711 -0.0675 -0.0957
```

7. ..

```
NACAL 292 RUN 46 DATE 15 OCT 80 TIME 01.00 RECOMP. NO. 1 DISK 1
                                                                                PAGE 16
__ JOB NO. 11
                               CONTRACT 1631 SUB ACCT 10001 ACQ DATE 10 JUL 80 18.42
             LDGR ACCT 31302
  MOD 40 ALPHA WIND ON RUN, C/B=70 DEG, FWD=66 DEG, AFT=34 DEG, HEAN=50 DEG, CMU=4
                       AUG 2
 DATA POINT 8
                                                 -0.4914
                                              0.0177
                                                     -0.0946
                                             -1.3773 -0.1728
           -0.0490 0.0330 0.0998 -0.1558
                                             -0.7328 -0.1928
        -0.0368
                                  -3.4135
                                                                -2.2842
                                                                           0.2806
    -0.2356
   -0.3682
                                   -4.0481
                                                               -4.1917
 -0.1779
                                                -3.1066
    0.0781
                                     -0.5584
                                                                         0.2552
     0.2288
      0.2885
             0.2928 0.2930 0.2877
                                0.2902 -0.5851
                                                                              0.2541
                              0.2942 -0.4285
                                                                                 0.2554
                                                                           0.1734
                               0.2880 -0.0068
               0.0056 -0.1037 -0.0233 -0.0355 -0.0398 0.2640 -0.0810 -0.0908 -0.1331
       0.1023
```

general de la companya del companya del companya de la companya d

###### 187 A							
NACAL 292	RUN 46	DATE 15 DCT	T 80 TIME	01.00	RECOMP. NO.	1 DISK	2 1 PAGE 18
JOB NO. 11	LDGR ACCT	31302 CDM	TRACT 1631	SUB AC	CT 10001	ACO DAT	E 10 JUL 80 18.44
MOD 40 ALPHA		.C/8=70 DEG.FA NUG 2	D=66 DEG,AFT	∙34 DEG•ME	AN=50 DEG,CMU	14	· · • •
DATA POINT 9			i waxa ka ilawa wakii		• • · · · · · · · · · · · · · · · · · ·	n sa ng	
				-0.4	4955		
		us Mit-valle	المستقد المستق	-0.0022	-0.0907	unt distanció della carca, ajulaterialment i di	1 - Maria - 2750 - 17 - 2 - 2000a
				-1.4232	0.1783		
-0.0785	773 -0.0263		792 -3.3460	-0.7222	-0.1950	-2.3493	0.2759
-0.3289 -0.3970 -0.2553			-3.9708			-4.2899	
0.0160 0.1906			-0.5339	e e e	- Oldright is €	-3.1054	0.2578
29 .	0•2925 0•29 <i>1</i>	0.2				-0.4125	0•2541 .0524
Anthonous a ran	•		0.2934		na parina da parina	a managami at lan	0.2571
			0 •2 93 4	-0,0111			
0.1073	-0.0024 -0.	.1172 -0.0012	-0.0601 -0	0.0564 0	•2640 - 0•0883	3 -0.0748 -	0.1368
			· Marie - Marie A. Waller - William		ga ng . F nggà ng (1976 distribution) jir ngghistini distribution	produces to the second of the second to the second	and the second s
		er de trombologie management en en en en	- AND THE STATE OF STATE OF STATE ST	manuacte series. In this as to	maks a see was observed and their	- m. Antoniana — M. I. M. Jan F. (1985) —	
	•				•		

A										
NACAL	292	RUN 46	DATE	15 NCT 80	TIME	01.01	RECOMP. N	0. i Di	ISK 1 P	AGE 22
- JOB NO.	11	LDGR	ACCT 31302	CONTRACT	1631	SUB AC	CT 10001	ACQ E	ATE 10 JUL 80	18.48
MOD 4	O ALPHA	WIND O	N RUN,C/B=70 AUG 2	DEG•FWD=66	DEG,AFT=	34 DEG:ME	AN=50 DEG.C	MU=4	- •	
DATA PO	INT 11			RIGINAL of POOR	rancona. u u	-0.	4480	• • • • • • • •	•	
and the delication of the second of the seco				PAGE Y	e van vooraan aga ar v	-0.0336	-0.0904	N 0.00000 0.10 50:	व्यक्तकाद⊡तक क्रांत ाम करता हर स्थाप	* * * * * * * * * *
Nacional de la constantina del constantina de la constantina del constantina de la c						-1.4216	-0.1616	.		
-0.	-0.1460	1436 -0,	1258 0,067	4 =0.0865 -3.17			-0.2040	-2.2020	0.2885	
-0.48°	79				7026			-4.1193		
	60 0929 0.268 8			- (0.3817	-2 e . 1 ma 1	· • • • • • •	-3.0238	0.259	2
professional desirability and the Marketon and the Market		2040	0.2919 0.2	MAN TO THE STATE OF THE STATE O		· An en week same process				
292	•	V•2040	0.2919 0.2	0.2890	-0.5518			-0.375	0.	2475
			· • • • • • • • • • • • • • • • • • • •	0.289	7 -0.3	894	markan da m	and control the second size of the second se	0.0104	
	•		-love sad s	0 •2			man of the same of	THE COMMENT OF SEC. 1.	0.1821	0.2529
	0.1123	0.0024	-0.1110	-0.0374 -0.0)208 - 0	.0478 0	.2640 -0.09	957 -0.0822	-0.1675	
		. e		MIC COMMITTEE CO	er e sentence proce cy ac no	regunican de la sensa de la capa			·· •	
gammaniga		•	w in a constant		••	- 100 - pp. /pd/ss	e			

ACAL 292 RUN 50 DATE 15 OCT 80 TIMF 01.41 RECOMP. NO. 1 DISK 1 PAGE 22

OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 10 JUL 80 23.58

MOD 44 ALPHA WIND ON RUN, FWD=40 DEG (C/B & AFT OFF), CMU=0, JET FLAP 2

PTS

14.70 14.233

SUMMARY PAGE

מא ז	ALPHA H PHI	Q H THETA	CLH THRUST	CDH DELAL	CMH WFT	Үм , ТЧТН	RL CMUTH	PTPFCH CDR	PTPCBH COHR	РТРАСН
1	0.4300	9.8212 72.6592	0.7976 84.8164	0.2490 0.4010	0.2974 0.0467	-254.9473 0.1234	2287.9635 0.0012	0.9960 0.0000	0.4988 0.2440	D*403a
2	1.4000 -3.5643	9.8881	0.5211	0.2297	0.0888	-352.6271	1569.0076	0.9956	0.9979	0.9986
-	1.4000	66.2144	58.1993	0.2552	0.0741	0.2068	0.0020	0.0000	0.2256	
3	-7.5458	9.8521	0.2730	0.2160	-0.1239	-336.6533	828.5632	0.9953	0.9920	0.4987
_	1.4000	51.6564	35.4503	0.1322	0.0661	0.1903	0.0018	0.0000	0.2159	
4	-11.4832	10.0414	-0.0687	0.2041	-0.3378	-201.2934	-174.2392	0.9960	0.9986	0.9993
	1.4000	-18.6183	22.3542	-0.0416	0.0661	0.1747	0.0016	0.0000	0.2041	
5	0.4184	9.7433	0.7611	0.2413	0.2825	-240.7848	2212.1850	0.9958	0.5986	0.0088
	1.4000	72.4046	80.4021	0.3822	0.0813	0.2206	0.0021	0.0000	0.2413	
6	4.4264	9.6544	1.0451	0.2892	0.4741	-145.3616	2937.6102	0.9963	0.9990	0.9991
	1.4000	74.5332	108.1963	0 • 52 84	0.0000	0.0000	0.000	0.0000	0.2852	
7	F.3515	9.7158	1.2561	0 .3 02 4	0.6181	-105.2949	3376.0004 -		0.9992	0.9991
	1.4000	76.4637	129.7260	0 • 63 66	0.0000	0.0000	0.000	0.0000	0.3024	
8	12.0966	9.8077	1.3671	0.3780	0.7038	-0.1611	3724.0142	0.9963	0.987	0.9985
	1.4000	74.5432	143.7655	0.6964	0.0570	0.1448	0.0014	0.0000	0.3780	
Ġ	16.0342	9.8259	1.3573	0.5835	0.6799	-140,3695	3903.1077	0.9963	0.0988	0.9990
	1.4000	66.7383	150.0282	0.7008	0.0661	0.1692	0.0016	0.0000	0.5834	
10	19.9310	9.5389	1.4636	0.6899	0.7593	69.9068	4000.6190	0.9966	0.9993	0.9992
	1.4000	64.7597	159.5057	0.7624	0.0329	0.0802	0.0008	0.0000	0.6859	

- .					_		E
NACAL 292 RUN 50 DATE	15 GCT 80 TIME	01.37	RECOMP.	NO , 1	DISK	1	PAGE 2
JOB NO. 11 LDGR ACCT 31302	CONTRACT 1631	SUB ACC	T 10001	pe, - gr - i - inig sees - i	ACQ DATE	10 JUL	80 23.41
MOD 44 ALPHA WIND ON RUN, FWD=40	DEG (C/B & AFT OFF)	,CMU=0,JET	FLAP 2	(B - > -	Mile Str. Mile J - Milestra	, .	
DATA POINT 1							
		0.4	733				
•	the think of the second	0.4713	0.4719	nam manament at 3 a. a.	se native summer	• 10 4	
·	•	0.4697	0.4724	r 945			•
0.4316 0.4460 0.479 0.3929 0.3200	0 0 44 85 0 42 91	0.4716	0.4714	- 1	0.4821	0.4734	g g
0.4148 0.5227	0.4304			0	•4740		
0.5364 0.4512 0.4776	0.5083		aug.		4734	0.4	713
0.4944 0.4955 0.4	0.5062 0.4228				0.4724	(0.4714
94	0.5099 0.4	224	PP PP - 1 200 and to - salvate	eter co, sees us see see	0 •4'	144_	0 4700
Control of the Contro	0 •4943	0.4193	p commission p some	person of the pe	. 19	0.472	0.4703 7
0.4522 0.4497 0.4578	0.4572 0.4616 0	.4566 0.4	4666 0.	4541 (0.4578 0	4591	
· ·	· Mark do Childre Samuel and Children y an	neris no difinalella	und all a storman para serapro o	v	a - 190 -		
◆ Managaman — gama — g	Printfile of an amount of company of company of	er der der der er der	The rate of the second	ंस र धराच्या वर	• • • • •		

PRODUCTION STORE SET SET SERVICE AND AN ARRANGE AND AR

í

terrotous.											0
NACAL 292	RUN 50	DATE 1	5 NCT 80	TIME	01.39	RECOMP.	NO.	1 1	DISK	1	PAGE 14
JOB NO. 11	LDGR ACC	T 31302	CONTRACT	1631	SUB AC	CT 10001	*	OSA	DATE	10 JUL	80 23.53
NOD 44	ALPHA WIND ON RU	N,FWD=40 DI	EG (C/B & /	AFT OFF)	,CMU=0,JE	T FLAP 2	,	,	-		
DATA POINT	7										
BB18		•	• • • • •	,	0 •4	4687) · • • • • • • • • • • • • • • • • • •			
Maring a manager state y a 1 - 5 - 31			tione 3 a mark 6 .	managari en sy	0.4610	0.4679	men sumb	6 demokri Wizi se - a	A 2		
Continue U.S. C.				4 · •	0.4665	0.4668	· · · •	•			
	0.3B92 0.417		0.4428 0.437		0.4677			0.473	4	0.4682	<u>!</u>
0.139° 0.2333 0.4148	1			4347				0.4715			
0.5285 0.526	5 [']		. (•5121	कालकान्तरी संग्यास्य	÷х -	m #	0.4703		0.4	670
0.	.5100 0.5136 0.5	049 0.4981	•		r v r - 10.06 Mentiopatie	Er Miller Nobel 1 Eventyre	Albertain and	በ -	.a 1 °		
295			0.5088	0.4299							0.4677
and the second of the second o		intended the terrorinanders of the	0.5112	0.4	265	i como emir. Selecte de mana	· 4 •	**· ** · · · · · · · · · · · · · · · ·	. v ••••	•	
aphillionic via par, v. pag.			0 •4	980	0.4242 -		ante a Martin de la constantina della constanti	ranne) a	· 510mm	0.468	0.4674 3
0.4	316 0.4322	0.4404 ~ 0.	4447 0.4	466 0	•4491 0.	.4703 0	,4428 [°]	0.4641	0.	4441	
			en la management	en eren elde en e	and the second s		en ressauer		- 40	-	
Market and		· · · ·	r i 1900 divi n — to destination of the same of a a div	r de trouver i val de de see a	e M de soudenie a	w 17 i w windows on di	~	e e t			

الرابي والمواود مواملو فيالمواود التمام ووادات المواص وماملون والمام والمام والمام والمام والمام والمام والمام

en de la composition della com

			• •	•			THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRE		-
NACAL 292	RUN 50	DATE 1	5 OCT 80	TIME	01.40	RECOMP. NO.	1 DIS	к 1	PAGE 16
JOB NO. 11	LDGR ACCT	31302	CONTRACT	1631	SUB ACC	T 10001	ACO DA	TE 10 J	UL 80 23.54
MOD 44 ALPI	HA WIND ON RUN	, FWD=40 D	EG (C/B & A	FT OFF)	,CMU=O,JET	FLAP 2			
DATA POINT 8		-						•	
			• • • •			714			
	•	- ,·	to Armony Mallorine and a command of a co	100	0.4708	0.4736	t Photoen a Minima E Service		
Makeum - makeum					0.4719	0.4711	. '		
0.325	0.38 73 0.4073	•	0.4472 0.4441		0.4702	0.4714	0.4772	0.4	716
0.2950			0 .43	341			0.4715		
		VI Martin o sala							0-4710
0.524	0.5265 0.51		0.5142	0.4316					0.4725
5			0.5241			Committee of the Committee and Committee of the Committee			0.4714
0.4191	0•4198 0								

A. (1988) - 12						
		DATE 15 OCT 80				
JOB NO. 11	LDGR ACCT	31302 CONTRACT	1631 SUB AC	CT 10001 -	ACO DAT	E 10 JUL 80 23.56
MOD 44 ALP	HA WIND ON RUN	FWD=40 DEG (C/B & AF	T OFF],CMU≡0,JE	T FLAP 2	mail mail of	
DATA POINT 10	1	• •	.	•	и .	
######################################			0.	4623		
			0.4628	0.4617	management (*The	
			0.4636	0.4643		
ALTERNATION AT A CO-			A //D/	0 1111	•	
	0.3992 0.4166 11	0.4478 0.4329 0.4191	0 ,4634	0 • 40 46	0.4684	0.4629
0.2177		0.41			0.4715	
0.3356			5050	*/	0.4703	0.4619
0.4895			5059		0.4 (0.3	014017
0.5370	070	•				
0.52	0.5233 0.51	71 0.5062	, AM WAR) yang mamanang ma z" - 4501	0.4620	
29		0.5136	0.4231		_	0.4649
97		war and the second of the seco	· · · · · · · · · · · · · · · · · · ·	erans Autorian — anno — a familia (n. 1818). A 1818 - C. C. C. A		4634
		0,5213	0.4180			0.4629
						0.4639
Andrew Control		0.49	0.4234		ACH SING CHINATE & SE SE SE SE SE	<u> </u>
0.424	48 0.4322 0	.4154 0.4191 0.42	210 0.4241 0	.4703 0.415	0.4304	0.4110
page the management of the second		graphy and the second s	e e e e e e e e e e e e e e e e e e e	page page page dissipations of page 4.25 p.	astraper - War-18 di	
		and the second s	4- +	1 4 V 120 - 422 11 59	riginal of	

4-924 i #5 i 3 22 3#7 9 i 2 2

ICAL	292 RU	N 51	DATE 15	nct 80 T	IME 01.54	RECOM	P. NO. 1	DISK	1 P	AGF 22
IB NO.	11	LDGR ACCT	31302	CONTRACT 16	31 SUB	ACCT 1000	1	ACO DATE	11 JUL 80	0.17
MOD 4	5 ALPHA W	IND ON RUN	FWD=44 DEG	(C/B & AFT 6		JET FLAP	2	P _T 14.71	P _A 14.233	
				Sui	MMARY PAGE					
ND	ALPHA H PHI	O H THETA	CLH THRUST	CDH Delal	CMH WFT	MY THTH:	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTP:CH
1	1.7501 1.4000	9.6791 -88.8952	3.5564 355.7991	-0.0685 1.7088	0.9504 2.6098	1232.8494 96.7912	10207.6613 0.9676	2.4079 0.0008	0.5992 -0.0654	0.4092
?	-2.3862 1.4000	9.7250 -85.7442	3.0634 308.7261	-0.2279 1.4687	0.7045 2.6102	1125.2920 96.8002	8989.0708 0.9632	2.4079 0.0008	0.097	0.9990
3	-6.4538 1.4000	9.7736 -81.5878	2.5353 258.8551	-0 .3749 1 .2145	0.4547 2.6128	1117.0233 96.9446	7775.1801 0.9598	2.4106 0.0009	0,4992 -0.3758	0• ¹ 1996
298	-10.4963 1.4000	9.8444 -76.4605	2.0311 212.5406	-0.4891 0.9746	0.2136 2.6147	1234.4456 97.0157	6495.6988 0.9536	2.4108 0.0009	Ი • ^{€ 9} 94 ~ ₽ • 4 [€] 70	0.94.94
5	1.6950 1.4000	9.6926 -88.5377	3.5211 352.8129	-0.0898 1.6964	0.9466 2.6161	1222.4441 97.0265	10202.2539 0.9687	2.4089 0.0009	6*:083 3060*9-	0.9995
6	5.7636 1.4000	9.8195 88.2198	3.5627 402.2969	0 •1162 1 •9141	1.1732 2.6162	1207.0019 96.9738	11520.9212 0.9556	2.4058 0.0009	0.41152	0.9990
7	9.7711 1.4000	9•6572 85•9860	4.4417 444.9729	0.3121 2.1562	1.4090 2.6153	1300.8676 96.9463	12668.5432 0.9714	2.4055 0.0019	0.4790 0.3111	0.9087
8	12.8043 1.4000	9.4523 83.2543	4.8651 478.5351	0.5759 2.3827	1.6175 2.6159	1392.7541 96.9908	13523.1200 0.9929	2.4068 0.0010	n.cnga n.5749	1.0002
ė	17.7678 1.4000	9.5480 80.2348	5.0277 503.2265	0 •8562 2 •5043	1.6995 2.6162	1403.5888 97.0416	14171,5806 0.9835	2.4076 0.0010	0.4493 0.4552	0.4094
0	20.7685 1.4000	9.6607 76.0541	3.1379 322.7931	0.7792 1.6279	0.9215 2.6155	1448.4756 97.1307	8458.2086 0.9729	2.4170 0.0010	0.909] 0.7781	0•9990

Ħ

₽ · · · · · · · · · · · · · · · · · · ·		·			t be fight y 71	
- NACAL 292 RUN	51 DATE 1	.5 OCT 80 TIM	E 01.50	RECOMP. NO.	1 DISK	1 PAGE 2
JOB NO. 11 L	DGR ACCT 31302	CONTRACT 1631	SUB ACC	T 10001	ACQ DATE	11 JUL 80 0.03
MOD 45 ALPHA WINE	D ON RUN, FWD=44 D	EG (C/B & AFT OF				
DATA POINT 1	१५४५११५५) १९५१५ १५०		-		*	
و المراجع المناه و	I. Ziring		0.4	768		
The state of the s	· ·	· · · · · · · · · · · · · · · · · · ·	0.4768	0.4777	оммин (6° з — — — — — — — — — — — — — — — — — — —	•
Salandara (1975)			0.4768	0.4754 .		
0.2446	0.3444 0.4056	0,2209 -2,1783	0.4768	0.4752	0.4742	0.4755
0.1335 0.3663		-0.6294			0.472	
0.3663 0.5198 0.5417 0.5257	en -	0.5192	1 (1600) (A) (1)		0.4811	0.4760
	54 0.5190 0.517	3 0.5241 0.38		Commission of Control of State Control o	0.4774	0 • 4 766
——————————————————————————————————————	Make Mile to a regression as	0.5263 0	.3539	न विभागमा सर्था अस्त्रकात्र १८०० । स्त्राक्ष अस्तरक्षात्र	0.47	44
		0.5254		and the second s	* * *	0.4771 0.4734
0.2714 0.2	2852 0.2259 0	.3008 0.2933	0.3001 0.4	4842 0. 3008	0.2745 0.	2720
*	AM or	er - Her Berlin, Salahan (d. 55a), bar - Ayayanayanay (s. <u>1914)</u> - 1914	இதை நேரு வி. சுதிர பால் இது பெற்று இதை நேரு வி. சுதிர பால் இது பெற்று	· Mr. chamin в касусуру — да	v 28 4 7 6 4 9 25	•
Marketine and the second of th		* ******* *	* * * * * * * * * * * * * * * * * * *	•		

and the second s

	UN 51 LDGR			15 0	CT 80	T II CT 1631	4E	01.52 SUB AC	RE CCT 1	COMP.	NO •	1	ACQ	DATE	1	JUL 8	0 0	: 1:)•1:
NO. 11 DD 45 ALPHA		-												•••	•	•		
A POINT 7				Amo, 8 10 81 807 1	Lessa, ma. 2210 h / -	rame calcher and - cook to do gay or cases	, . <u> </u>	•				i upraju de 41		EB1 # 1		· 0 - 46		
								0	.4778	1								
, grande deservices			•		a p. 69 400	ag is and some where		0.4761	C	.4772		. 	29 98	42 St #M ROK3			***	
								0.4769		.4758								
0.1 0.1185	2508 (.2970	-	9 0	.1709	.1759		0.477	2 (.4735	, <u>, , , , , , , , , , , , , , , , , , </u>		0.47	92 _	_0.	4761		
-0.3208				ear T		-0.6784						0.0	4661					
0.2214 0661 0.3825 0.5283	•		, .	-		0.551	6	i manamatan m				0.4	824			0.4	752	
0.5471	0.5445	0.53	89 0.5	317	0•529!	5 0,3	709	, automorphis (th. f f	will be the the			, ana ≏ : 24 - ≖ ·	0.4		734		0.47	71
300		• • ··	<u>.</u>	-	0.	5318	0.3	482		or or the second terms of	man to read als	•••			(0.473		47
		•	<u></u>			0.5335	** *	0.4133		- AND AND ADDRESS OF THE	or or car tage early	process) 4 44 20	•					
0.2933	0.27	95 0	.1535	0.2	689	0.2646	0	.2639	0 •48	17	2702	2 0	.247	1 (.23	02		

and the second of the second commence of the second second

```
CAL 292 RUN 51 DATE 15 OCT 80 TIME 03.53
                                                RECOMP. NO. 1 DISK 1
                                                                          PAGE 16
B NO. 11
         LDGR ACCT 31302
                           CONTRACT 1631 SUB ACCT 10001
                                                           ACO DATE 11 JUL 80 0.14
MOD 45 ALPHA WIND ON RUN, FWD=44 DEG (C/B & AFT OFF), CMU=1, JET FLAP 2
TA POINT B
                                             0.4692
                                         0.4684 0.4667
                                         0.4689 0.4681
        0.1273 0.1497 0.3444 0.2190
                                          0.4695
                                                 0.4683
     0.1585
                            -2.2667
                                                           0.4749 0.4675
 -0.1171
-0.2361
                               -0.5766
                                                           0.4699
.0447
0.3053
                               0.5192
                                                 0.4761 0.4693
 0.4862
     0.5394
                           0.5249 0.3698
                                                                        0.4690
                             0.5292
                                     0.3541
                                                                          0.4675
                            0.5261 0.4152
          0.2496 0.1535 0.2327 0.2720 0.2539 0.4749 0.2421 0.2321 0.1928
   0.3394
```

NACAL 292 RUN 51 DAT	TE 15 OCT 80 TIME	01 6 4	RECOMP.	NO. 1	DISK	1 PA	GF 20
JOB NO. 11 LDGR ACCT 3136	CONTRACT 1631	SUB ACC	T 10001		ACO DATE	11 JUL 80	0.16
MOD 45 ALPHA WIND ON RUN, FWD:	±44 DEG (C/B & AFT OFF	î,CMU=1,JET	FLAP 2	• •		<u>.</u>	. •
DATA POINT 10					-		
		0.40	815				
	and the second s	0.4828	0.4822	an angula dalah ana kah dalam (dalah Sebagai d 19		man and reader to the other control of	sees lines refer y
		0.4784	0.4823	y gir gan gana renderati	•		
0.4093 0.3931 0. 0.4318		0.4801			.4892	0.4801	
0.3900 0.2646	-0 .2073			0.4	842		
0.3401 0.4726 0.5460	0.5011			0.48		0.4801	
	0.5283 0.5264 0.405			2 v - 2009	0.4798 0.47		805
302	0.5283 0.	3826	-	ua - 1 × 4 = 4 +	0.41		.4803
	0.5255	0.4052	ranger op medicin	ay ar many farity proc stream representations	-a day possible		
0.4019 0.3881 0.393	1 0.3925 0.3950	0.3850 0.	4842 0	•3145 O	.3232 0.	3226	
		# v			. •		

- NACAL 292 RUN 52 DATE 15 OCT 80 TIME 02.12 RECOMP. NO. 1 DISK 1 PAGE 22

SUB ACCT 10001

CONTRACT 1631

MOD 46 ALPHA WIND ON RUN, FWD=44 DEG (C/B & AFT DFF), CMU=2, JET FLAP 2

LDGR, ACCT 31302

JOB NO. 11

P_T P_A
14.47 14.233

ACO DATE 11 JUL 80 0.37

SUMMARY PAGE

סא די	АГЬНУ Н БНІ	O H THETA	CLH THRUST	C D H D E L A L	CMH WFT	Ү М ТНТН	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	РТРАСН
1	2.0352 1.4000	4.9612 -82.8770	4.4974 232.3748	-0.5620 2.0475	1.0684 2.6165	1531.7783 97.8881	6779.6594 1.9092	2.4496 0.0009	0.0005 -0.5630	1.0000
2	-2.0272 1.4000	4.9309 -78.9685	4.0078 208.0730	-0.7813 1.8178	0.8317 2.6229	1520.4416 98.1912	6137.4734 1.9269	2.4514 0.0009	0.6005 -0.7823	1.0001
3	-6.1339 1.4000	4.9704 -74.4011	3.4714 185.1269	-0.9691 1.5732	0.5781 2.6228	1483.4616 98.2291	5470.8080 1.9123	2.4534 0.0009	0.0000	0.gac4
4 303	-10.1940 1.4000	4.5789 -68.1077	2.8355 157.4607	-1 .1 41 0 1 .29 05	0.3081 2.6253	1547.8063 98.3954	4715.3395 1.9123	2.4560 0.0009	0.9995 -1.1420	1.0002
5	2.0897 1.4000	4.2086 -82.7746	4.6355 232.3947	-0.5881 2.1020	1.1017 2.6250	1555 • 8644 98 • 4074	6759.6082 1.9803	2.4563 0.0009	a.cegg -0.5891	1.000%
Ŀ	6.0996 1.4000	4.8002 -86.4350	5•1664 256•7845	-0.3218 2.3532	1.3482 2.6235	1554.8388 98.3418	7439.0649 1.9824	2.4554 0.0009	0.5993	1.0001
7	10.2515	4.8515 -89.8172	5.6156 281.7461	-0.0179 2.5826	1.5677 2.6254	1614.6097 98.4042	8128.0757 1.9627	2.4539 0.0009	1.0003 -0.0188	1.0006
8	14.3461 1.4000	4.6873 86.7671	6.29£0 305.5590	0.3557 2.9140	1.8570 2.6237	1644.6158 98.2969	8710.2401 2.0292	2.4517	0.5095 0.3548	0.9992
ċ	18.2755 1.4000	4.6154 83.6850	6.7049 321.7501	0.7420 3.1464	2.0508 2.6266	1688 •6295 98 •4924	9159.8011 2.0650	2.4545 0.0009	0.9998 0.7410	1.0065
10	22.3173 1.4000	4.6867 80.6882	6•9238 339•9600	1 •1352 3 •3158	2.1400 2.6238	1739.7037 98.3612	9642.2893 2.0300	2.4530 0.0009	0.5991 1.1343	C•999#

NACAL 292 RUN 52 D	ATE 15 NCT 80 TIME	02.08 RECOM	IP. NO. 1 DISK	1 PAGE 2
JOB NO. 11 LDGR ACCT 31	302 CONTRACT 1631	SUB ACCT 1000	1 ACQ DAT	E 11 JUL 80 0.21
MOD 46 ALPHA WIND ON RUN, FW	D=44 DEG (C/B & AFT OFF)	CMU=2,JET FLAP	2	• • •
DATA POINT 1	e en		•	
		0.2426		
phonoderer	and the second s	0.2426 0.24	25	
· ·		0.2459 0.24	34	-
0.1372 0.1553 0 0.0991 -0.0263	.1884 0.0798 -2.2174	0.2431 0.24	45 0.2345	0.2434
0.0311	-0.7119		\$ 2 302	
0.1597 0.2622 0.2812	0,2470	, a secondario	0.2358	0.2419
0.2718 0.2713 0.2682	0.2682		0.2448	0.2419
•	0.2662 0.1			0.2431
	0 .2693	0.1965	mais programming to the Hill of the second s	The second secon
0.1048 0.1097 0.08	48 0.1110 0.1172 0	.1297 0.2395	0.1129 0.0998	0.0973
• • •		<u> </u>		

					8
NACAL 292 RUN 52 DATE :	15 OCT 80 TIME	02.11	RECOMP. NO.	1 DISK 1	PAGE 14
LUGR ACCT 31302	CONTRACT 1631	SUB ACCT	T 10001	· · ·	
MOD 46 ALPHA WIND ON RUN, FWD=44 [DEG (C/B & AFT OFF)	•CMU=2.JFT	FLAP 2		000 00 0.34
	V - V - MARIE V			Contraction of the Contraction o	S AME - Fig. 4
DATA POINT 7					
	· · · · · · · · · · · · · · · · · · ·			** * *	
Section 1.	_	0.23	386		
	T 1 1 mares ⊕	0.2403	0.2385	manuscript and a second	A Property of the State of the
		0.2413	0.2403		
0.0898 0.1241 0.1640	00598				
0.0249	-2.2272	0.2396		0.2345 0.	20.00
-0.1643	-0.7463	A CONTRACTOR OF THE		-, <u>-</u>	2388
-0.0208 				0.2395	
0.2581	0.2464		• •	0.2320	0.2389
0.2743 0.2750 0.2713 0.268	grande i servicio de la companya de				
ω 00 05	0.2685 0.1962		- (0.2389	•
OPERATE STATES OF THE STATES O	0.2656 0.14			0.2423	0.2388
	U.2000 U.14	.74	W. M. D		
al management of the second angles of the second an				o	0.2397 .2422
	0.2675	•1925	3,1	and the second state with the second	
0.1004 0.0973 0.0449 0.	0892 0.0973 0.	1035 0.23	33 0.0904 ⁻		n
				0,003	
	TO SEE THE SECOND SECON	ann y an 'ng an haanna caga ghaa a casa 'g	the street, the Commission was been been as an analysis of the street,	a co	
•					
	The second secon	يون د ده د	e ye an a	ر غرد مستر درو در دد در مستم مستود د	₩

		-	*		12
ACAL 292 RUN 52	DATE 15 OCT 80 TIM	E 02.11	RECOMP. NO.	1 DISK 1	PAGE 16
DB NO. 11 LDGR	ACCT 31302 CONTRACT 1631			ACO DATE 1	
MOD 46 ALPHA WIND ON	RUN, FWD=44 DEG (C/B & AFT OF			ACS DATE 1.	1 JUL 80 0.34
	TO TO THE TAPE OF	L 142MO#547F1	FLAP 2	nn and additions former i december addit is supplied	• 4 = 6 μ
TA POINT 8					
	· · · · · · · · · · · · · · · · · · ·			* * * * * * *	
• • • •		0.2	386		
	er er o og	0.2400	0.2382	manda and and and and an an an and an	
		0.2403	0.2396		
0.0249 0.0	0804 0.1553 0.0798		•	And the second second second	٠
-0.0030 -0.1422	-2.2322	0.2394	0.2402	0.2314	2204
-0.1937	~0 •6825			0.2314 0	• 2 3 00
0.0784 0.1238				0,2264	
0.1238	0.2383		· · · · · · · · · · · · · · · · · · ·	0.2314	0.2394
0.2747	0.2721 0.2701				
U•2132 (0.2721 0.2701 0.2656 0.197	'R	The same that is the state of t	0.2371	-
			distribution is soon and soon	0.2411	0.2394
9	0.2672 0.	1549	The second of th		
Mind may be as a second	and the second of the second o		anno I Vivini sene i ni i sene ani i		0.2393 0.2416
	0.2693	0.1942	—— - Trinds seems is a language and	COMMUNICATION OF COMMUNICATION OF THE COMMUNICATION	
0.1341 0.0898	0.0249 0.0742 0.1025	0 0005			
	0.0249 0.0742 0.1035	0.0935 0.2	2320 0.0804	0.0779 0.049	92
• • • • •	en a la companya de la companya del la companya de	nen skala – skrap Arganes – ant. r skap rapir r resa			•
				The state of the S	• •
		Ann de des . de			
·				a transfer of the control of the con	·· •
e destruction of the same of t	•••				

NACAL 292 RUN	52 DATE 15 OCT 80 T	TIME 02.12 R	ECOMP. NO.	L DISK 1	PAGE 20
JDB NO. 11 L	DGR ACCT 31302 CONTRACT 16	SUB ACCT	10001	ACQ DATE 1	11 JUL 80 0.36
	D ON RUN, FWD=44 DEG (C/B & AFT			· Consumeration and place	- W 198
DATA POINT 10	. a constant and the co		e destruit de la section de la	auth-Saonne so val du 12 − 14 − 1	• •
		0.238	2		•
- · · · · ·	Change Co.	0.2386	0.2385		
		0.2403	0.2386		
-0.0177 -0.0183 -0.1441	-0.0067 0.1297 0.0848 -2.3070			0.2295	0,2399
-0.2747	-0.6481			0.2289	
-0.2054 0.0061 0.1780 0.2704	0.24			0.2308	0.2397
0.27	73 0.2773 0.2749 0.2689 0.	2012		0.2402	0.2402
printing parties of contract in the	0.2672	0.1686		THE PERSON NAMED IN COLUMN 1	0.2391
307	0.2727	7	na ou nu provi pani munita num - provi ili ili haptor	en idee - Eren Winselmann - 95	
		0.2028			
0.0798 0.0	0723 0.0442 0.0268 0.0786	0.0761 0.23	20 0.0598	0.0567 0.0	0174
MANAGE . N. T.				operawaayaa a wee v ≻	The second secon
		Marin production of the control of t		and an experience of the second	

 1CAL 292
 RUN 53
 DATE 15 DCT 80
 TIME 02.25
 RECOMP. NO. 1
 DISK 1
 PAGE 22

 1B NO. 11
 L' « ACCT 31302
 CONTRACT 1631
 SUB ACCT 10001
 ACO DATE 11 JUL 80 17.40

 MOD 47
 ALPHA WIND ON RUN, FWD=44 DEG (C/B & AFT OFF), CMU=4, JET FLAP 2
 PTS PA

 SUMMARY PAGE

 INO ALPHA H
 O H
 CLH
 CDH
 CMH
 YM
 RL
 PTPECH
 PTPCBH
 PTPCBH<

ר אס	ALPHA H Phi	O H THETA	CLH THRUST	C DH D ELAL	CMH WFT	үм ТНТН	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
)	2.6083	2.4518	6.3623	-1 .6287	1-2915	1773.9406	4822.2805	2.4753	0.9995	0.9993
	1.4000	-75.6407	166.4008	2.6126	2.6290	98.5348	3.8889	0.0000	-1.6288	
2	-1.4960	2.5355	5.5571	-1.8769	0.9903	1746,2979	4473.4143	2.4666	1.0005	1.0003
	1.4000	-71.2369	153.6885	2.2916	2.6424	97.9303	3.7375	0.0001	-1.8771	
3	-5.5545	2.5120	4.5471	-2 .2 048	0.7212	1728.1641	4106.0432	2.4715	1.0000	1.6000
	1.4000	-65.9788	140.6030	2.0316	2.6849	98.3217	3.7875	0.0003	-2.2051	
۷,	ω −9.7364	2.5824	4.0535	-2.4289	0.4157	1775.8873	3672.6761	2.4716	0.6992	0.9092
	1.4000	-59.0698	126.1119	1.6776	2.6797	98.4048	3.6873	0.0002	-2.4241	
5	2.6777	2.4036	6.4556	-1 .6736	1.2884	1773.2241	4780.6919	2.4731	0,000	0.0089
	1.4000	-75.4656	165.6524	2.6354	2.6803	98.4813	3.9648	0.0001	-1.673R	
6	€.8670	2.4184	7.1561	-1 .1832	1.5789	1765.7431	5204.0501	2.4710	n.c999	1.0001
	1.4000	-80.6109	181.2779	2.9556	2.6757	98.3372	3.9346	0.0001	-1.1834	
7	10.9552	2.2477	7.8954	-0.8111	1.8633	1799.2514	5510.1594	2.4672	0.0000	0.9989
	1.4000	-84.1344	192.5658	3.2673	2.6777	98.2882	4.0511	0.0001	-0.8112	
8	14.9367	2.2475	8.3682	-0.3319	2.0819	1853.7824	5845.0993	2.4675	0.9997	0.9993
	1.4000	-87.7283	203.1688	3.5102	2.6841	98.1587	4.0462	0.0001	-0.3320	
9	19.1534	2.3445	8.4581	0.3154	2.3196	1887.8580	6202.3818	2.4689	0.0003	0.9954
	1.4000	87.483]	217.1754	3 . 82 54	2.6651	98.2098	4.0535	0.0001	0.3153	
10	23.2747	2.2553	9.5839	0.8290	2.5272	1953.3590	6355.7745	2.4683	0.9993	0.9985
	1.4000	85.0562	224,2028	4.1373	2.6670	98.2586	4.2159	0.0001	0.8289	-

0

• • W

f				es we	$\boldsymbol{\mathcal{O}}$
IACAL 292 RUN 53	DATE 15 OCT 80 TIME	02.21	RECOMP. NO.	1 DISK	PAGE 2
DB NO. 11 LDGR ACC	T 31302 CONTRACT 1631	SUB ACC	T 10001	ACQ DATE	11 JUL 80 17.23
MOD 47 ALPHA WIND ON RUI	N.FWD=44 DEG (C/B & AFT OFF),CMU=4,JET	FLAP 2		
ATA POINT 1			1		
		0.1	213		
gaptimans (a) (a) (b) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	THE THE PERSON OF THE PERSON O	0.1213	0.1215	- Francisco Lock	2 de series de 13 -
.•	• · · · · •	0.1200	0.1210		
0.0293	4 0.0949 0.0349 	0.1195		0.1174	0.1210
-0.0429 0.0106	-0.7526			0.1161	
0.0605 0.1209 0.1382	0.1161			0.1024	0.1212
0.1366 0.1377 0.13 త్ర	0.1294 0.122	23			0.1213
	0.1306 0.			0.120	0.1189
****	0.1318	0.0874	e e tan man, e ment and separate egan	mendentagra – redentagers den urb ur-	*>
	0.0368 0.0318 0.0443	0.0399 0.	1068 0.040	5 0.0399 0.0	0362
*	and the second community and the second control of the second cont	B gr - Britishing Variotic Fridance - I dia	Term to the second of the seco	TOTAL LIST MARKET 2 TO 40 AT ASSET	-
- un · · ·	e de la manda de manda de la m	e			

.

		~				- 8
ACAL 292 RUN 53 DATE 15 18 NO. 11 LDGR ACCT 31302 MOD 47 ALPHA WIND ON RUN, FWD=44 DE	CONTRACT 1631	SUB ACCT				1 PAGE 14 11 JUL 80 17.34
ITA POINT 7	• • • • • · · · · · · · · · · · · · · ·					
 .	4 - 1940 - 1944.	0.120 0.1195		· सम्बद्ध इति ः १२	•••••••••••••••••••••••••••••••••••••••	
0.0380 0.0474 0.0836 -0.0049 -0.1227	0. 0224 -2.2593		0.1207		0.1136	0.1200
-0.1135 .0270 0.0738 0.1247	-0.7619 0.1249		• •		0.1167 0.1074	0.1204
0.1377	0.1297 0.1136 0.1298 0.05	42			0.1224	0×1195
	0.1332 0		-M12 N41 (1 MA)	D. A. MARK Philipson s		0.1193
0.0349 0.0399 0.0399 0.0	0.0393 0.0343 0.0	0299 0.110	0.0	224	····0•0274 .0•0	0131

•

the state of the s

and the second of the second o

```
DATE 15 OCT 80 TIME 02.24
                                                                       DISK 1
                                                                                   PAGE 16
                                                       RECOMP. NO. 1
             RUN 53
 ACAL 292
                                CONTRACT 1631 SUB ACCT 10001 ACC DATE 11 JUL 80 17.35
            LDGR ACCT 31302
 DB NO. 11
  MOD 47 ALPHA WIND ON RUN, FWD=44 DEG (C/B & AFT OFF), CMU=4, JET FLAP 2
 ATA POINT 8
                                                   0.1189
                                               0.1189 0.1215
                                               0.1200 0.1227
                                                0.1186 0.1197
                  0.0349 $.0749 0.0306
                                                                   0.1186
                                                                            0.1213
                                   -2.2384
      -0.0233
    -0.1731
                                    -0.7821
                                                                   0.1136
  -0.1651
3 0.0859
                                       0.1199
                                                                  0.1049
                                                                             0.1220
  0.0384
    0.1192
        0.1289
                                                                     0.1226
             0.1283 0.1281 0.1235
                                                                                   0.1206
                                0.1309
                                         0.1129
                                   0.1329 0.0556
                                                                                    0.1206
                                                                              0.1181
                         0.1358 0.0789
              0.0405 0.0193 0.0143 0.0293 0.0262 0.1142 0.0231 0.0199 -0.0036
```

```
ACAL 292 RUN 53 DATE 15 OCT 80 TIME 02.25 RECOMP. NO. 1 DISK 1
OB NO. 11
        LDGR ACCT 31302
                            CONTRACT 1631
                                          SUB ACCT 10001 ACO DATE 11 JUL 80 17.39
MOD 47 ALPHA WIND ON RUN, FWD=44 DEG (C/B & AFT DFF), CMU=4, JET FLAP 2
ATA POINT 10
                                             0.1172
                                          0.1176 0.1197
                                          0.1187 0.1200
        -0.0601 -0.0110 0.0618 0.0224
                                          0.1184 0.1172
     -0.0638
                           -2.2740
                                                         0.1011 0.1156
  -0.1804
-0.2130
                               -0.7625
                                                           0.1092
0.1719
-0.0317
                                 0.1161
                                                          0.1074 0.1169
  0.0718
      0.1277
          0.1352 0.1352 0.1325
                            0.1295
                                   0.1153
                                                                         0.1176
                       0.1323 0.0564
                                                                           0.1166
                                                                    0.1163
                           0.1346 0.0819
           0.0199 -0.0128 0.0106 0.0224 0.0118 0.1068 0.0074 0.0031 -0.0184
```

IACAL 292 RUN 55 DATE 16 OCT 80 TIME 03.17 RECOMP. NO. 1 DISK 1 PAGE 22

JOB NO. 11 - LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 11 JUL 80 20.17

MOD 49 JET FLAP 1 ALPHA WIND ON RUN, CMU=0, FWD=44 DEG, C/B & AFT OFF

PTS
14.92 14.218

SUMMARY PAGE

חת די	ALPHA H PHI	Q H THETA	CLH THRUST	CDH DELAL	CHH WFT	YM THTH	CMUTH RL	PTPFCH COR	PTPCBH CDFC	РТРАСН
1	0.3243 1.4000	14.1218 64.8135	0.8706 83.8538	0.4094 0.2601	0.3781 0.1205	-480.4547 0.2248	2523.3986 0.0025	0.9951 0.0000	(*, C. 5 ** * (. (.) .) . 4 (.) . }	0.9163
2	-3.6142 1.4000	14.2405 59.0694	0.6448 66.0723	0.3863 0.1906	0.1354 0.1173	-607.2428 0.2132	2040.6655 0.0024	0.9947 0.0000	೧. ५९०३ ೧.३१७३	0.9094
3	-7.5595 1.4000	14.1098 48.7014	0.3928 45.5353	0.3450 0.1134	-0.1944 0.0553	-558.6862 0.1612	1311.0624 0.0018	0.9949 0.0090	0.45.40	U*Acdit
4 w	-11.4495 1.4000	14.3342 27.2310	0.1760 33.9243	0.3406 0.0468	-0.4770 0.1158	-462.6709 0.1564	629.7760 0.0017	0.9953 0.0000	0.9995 0.3405	0.9097
5	0.3018 1.4000	14.1987 65.2220	0.5316 89.8526	0.4280 0.2789	0.3577 0.1141	-489.4413 0.1735	2553.7229 0.0019	0.9548 0.0000	0.4276	0.9905
6	4.1849 1.4000	14.0898 68.3723	1.1617 108.6786	0.4606 0.3499	0.5151 0.1931	-361.6974 0.2644	3048.9694 0.0041	0.9958 0.0001	1.0004 0.4604	0.9396
7	8.0757 1.4000	14.0597 69.0881	1.2482 115.3490	0.4570 0.3766	0.7155 0.0731	-282.5141 0.1836	3282.9355 0.0021	0.9958 0.0000	1.0902 0.4570	\$*000S
8	11.7531 1.4000	14.0379 64.9178	1.1826 113.1382	0.5535 0.3567	0.8027 0.1518	-152.5701 0.2744	2924.2758 0.0031	0.9556 0.0001	0.5997 0.5534	0.9999
9	15.6767 1.4000	14.0274 61.2095	1.3166 129.9419	0.7205 0.3994	0.8578 0.0580	-208.4574 0.0371	2891.4586 0.0004	0.9956 0.0000	0.096 0.7204	0.9068
10	19.4798 1.4000	14.0472 58.7643	1.4247 144.4676	0.8640 0.4347	0.9756 0.1926	-318.1437 0.3448	2812.5467 0.0039	0.9968 0.0001	1.0007 0.8639	1.0006

NACAL 292 RUN 55	DATE 16 OCT 80	TIME CA 12	PECOMD NO 1	DISK 1 PAGE 2
				ACQ DATE 11 JUL 80 19.59
	.PHA WIND ON RUN, CMU=0, Fh			o o o e oe
DATA POINT 1				•
		0.7020		
No. 3 Year 1 No.		0.7024 0.7031		• • • • • • • • • • • • • • • • • • •
		0.7035 0.7027	·	
0.6270 0.5764 0.6283	0.6314	0.7044 0.6987	0 (000	0.6944
0.7 988	6301 € € € € € € € € € € € € € € € € € € €		0.7032	
0.7768 0.7356 0.7353	0.7501 0.7382	ر میں در میں در میں در میں میں میں اور میں اور میں در میں در میں در میں در میں در میں اور میں اور میں اور میں	0.7120	0.6972
	0.7427 0.6233		0.6975	0.6997
	0.7418 0.61	.20	-(0009
	0.7331 0	.6184		-0.0016
0.6295 0.6245	0.6308 0.6308 0.6	320 0.6233 0.7	070 0.6289 0.	6345 0.6170
GRANN THE AREA				· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·	

			-,						
VACAL 292	RUN 55	DATE 16 OCT	80 TIME	03.15	RECOMP.	NO. 1	DISK	1	PAGE 14
JOB NO. 11	LDGR	ACCT 31302 CON	TRACT 1631	SUB A	CCT 10001	1 Am A. Am	ACQ DATE	11 JUL	80 20.14
MOD 49	JET FLAP 1 ALI	PHA WIND ON RUN, CM	U=0 +FWD=44 DE	G,C/B &	AFT OFF	riopizmo i delvispogodi		Name -	
TATE POINT	7		No. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		*** ** * ** * •	Was	-		
				0.6969					
CONTRACTOR AND THE CONTRACTOR AN		· · · ·	0.696	9 0.69	978	a _{स्था} स्थानाम् । प्राप्तानाम् । प्राप्तानाम् ।	*****		
Assessment #			0.697	2 0.70	000		* - * -		
	0.5 721 0.4715 0.4646	0.6052 0.6289		04 0.69	963	0.7219	0.69	55 _.	
		0.6183				0.7176			
315	0.7817 0.7679	0.7594 0.7561				0.7182	0.	6953	
* man (m)		0.7586 0				0.696		0.6992	
Management of the Section		0,7659	0.6207	The same of the same and the same of	A - diliber - Asse us - sectionals su	-(.0009		5-138 - SAM C-98
emment of the		0.733	35 0.6333			e como e de como e que sua	~0 • O(0.69	86
0.6	120 0.5945	0.5895 0.6008	0.6070 0	•5995 C	0.7082 0	.6020 ° 0.	6145 0	5970	
STREAM OF A REQUIREMENT COST &	-	s company of the second second second second	of Diministration and their terror sales as a seed now a relative stay and page.	⊞gd dharib (iki dan με . m.)	n n n retre anna ca como de como	n temperati y tok - (n y	• •		
.			THE CONTRACT OF THE CONTRACT O	- ••		•			
	•								

♥ - ××						ad Cifrano III g		
NACAL 292	RUN 55	DATE 16 OC	T 80 TIME	03.16	RECOMP. NO.	1 DI	SK 1	PAGE 16
JOB NO. 11	LDGR A	ACCT 31302 CO	NTRACT 1631	SUB ACC	T 10001	ACO D	ATE 11 JU	IL 80 20.15
MOD 49 J	ET FLAP 1 ALF	PHA WIND ON RUN•C	MU=0,FWD=44 D	EG •C/R & AF	T OFF	** ****************		
DATA POINT	8		v			o so Maria - Albari - Maria	_	
				0.6998				
translate to		. gr. i di Militaria Maria I	0.70	14 0.701	.7			n i ngan manan nama
Not delivery - VV		•	0.70	21 0.702	26	·•• •		
	0.6458 0.6320 0.5945	0.6489 0.6426	0.7		0.	71200	•6994	,
	0.7438 0.8004	0.6408			0.70	70		
316	0.7879 0.7745	0.7763		· • •	0.709		0.6997	
reconstruction of the control of the		0.7651	0.6438	na nan in dia 2 1126 die 1866 1		.7015	0.70	-)23
and annual to the August		0.7708	0.6420	• •• · · · · · · · · · · · · · · · · ·	e magazina aban sa ka ka ka ga sa ana	-0.0009		-
		0.7	466 0,6372	<u></u>		-	0.0016	7021
0.6	495 0.6489	0.6495 0.655	7 0.6445	0.6470 0.	7095 0.6251	0.6270	0.6158	
							• v• •	
•••• · · · · ·	٠.			anna ann an ann an ann an an an an	The same of the sa		W . A -	

NACAL 292	RUN 55	DATE 16 NCT 80	TIME	03.17	RECOMP. NO.	1	DISK 1	P/	IGE 2
JOB NO. 11	LDGR AC	CCT 31302 CONTRAC	T 1631	SUB ACC	т 10001	- ACC	DATE 11	JUL 80	20.17
MOD 49 JE	T FLAP 1 ALPH	HA WIND ON RUN, CHU=0,	FWD=44 DEG	,C/B & AF	T OFF				
DATA POINT 1	0	,		•6997	is granded to	••			
and the second section of the section of		and the second s			2		•	* 1	
		م سخد به		0.700		<u>.</u> .,		· er	
		0.6607	0.700	1 0.698	7	.7120	0.6947		
۱۰ ۱۰ ومه همی هندسینی	0.4396 0.6639	0 • 62 95			0.7				
and extremely an extra control of the control of th	0.7861 6.8040 0.7921	0.7782				95		981	t-
317		0.7762 0.63					(0.7004	ale 2
<u> </u>	- · · · · · · · · · · ·	0.7825 0	.6372	ஆடிர இணைப் செய்	a distribution of the second o	-0.0	009		. • •
•		0.7484	0.6359	_ 		es passa summando s	-0.001	0 •6992 6	, and .
0.69	589 0.6570	0.6445 0.6345	0.6095 0.	.5970 0.	7095 0.639	0.64	20 0.63	295	
- ·		g say s e s sue m re		المنطقة ميو المسارين	y van en	o der €s des en	• •		v
		<u>.</u>		4:**	and the same and	game, avers o			

NACAL	292 R	UN 56	DATE 16	OCT 80	TIMF 03.29	RECOM	P. NO. 1	nisk	1	PAGE 22
JOB NO	3. 11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 1000	1	ACO DATE	11 JUL 8	30 20.47
MOD	50 JET FL	AP 1 ALPHA	WIND ON RUN	N,CMU=1,FWD	=44 DEG C/B	& AFT OFF		P _{TS}	P _A	
									14.218	
					SUMMARY PAGE					
PT NO	ALPHA H	ρн	CLH	CDH	СМН	YM	RL	PTPFCH	PTPCRE	PTPACH
	PHI	THETA	THRUST	DELAL	. WFT	. ТИТН	СНИТН	CDR	Chris	
1	1.3455	14.0382	4.4885	0.0643	1.1290	1092.3058	11125.0649	2.1855	0.5997	1.0000
ŧ	1.4000	89.9450	388,5045	1.3226	2.3972	83,9110	0.9684	0.0017	0.002	,
2	-2.6819	14.1229	3.9119	-0.1509	0.8452	789.0476	9983.5255	2.1826	1.0006	1.0005
	1.4600	-87.7903	341.2499	1.1510	2.4093	83.7879	0.9612	0.0018	-0.1527	•
3	-6.7023	14.0149	3.3156	-0.3067	0.5613	711.2117	8610.1909	2.1229	n. çaç.	0.9992
	1.4000	-84.7146	288.0292	0.9744	2.3700	83.9242	0.9702	0.0018	-0.3089	•
ر 4	, -10.6448	13.8742	2.7790	-0.4201	0.2769	725.0019	7336.7096	2.1883	0.5995	1.0001
4 4	1.4000	-81.4036	240.6812	0.8172	2.4362	84.0784	0.9818	0.0019	-0.4220	1
5	1.3115	13.9035	4.4988	-0.0239	1.1489	1071.5474	11130.7027	2.1838	1.0000	1.0005
	1.4000	-89.6953	386.0666	1.3238	2.42 93	83.5804	0.9786	0.0019	-0.0259)
6	5.3456	14.0072	5.0912	0.1727	1.4442	1242.7502	12388.0058	2.1821	0.4994	0.9005
	1.4000	88.0568	440.4081	1.5026	2.3673	83.8476	0.9698	0.0019	0.1707	•
7	9.3277	14.3062	5.5268	0.3718	1.7111	1453.6001	13730.2066	2.1850	1.0003	1.0000

2.3971

1.9212

2.4118

1.3579

2.4176

1.2606

2.3848

84.0026

84.0422

83.9768

83.7901

2131.6879

1816.7172 14383.1377

1777.4522 10488.4035

0.9513

0.0568

0.9682

0.9561

8879.2952

0.0020

2.1855

0.0020

2.1852

0.0021

2.1855

0.0021

0.3698

1.0006

0.5882

0.095

0.9101

0.9999

0.8624

0.9997

0.9996

0.9058

1.4000

13.1577

1.4000

16.5590

1.4000

20.1691

1.4000

8

9

10

86,1506

14.2307

84.1296

14.0517

77.2929

14.1982

76.1770

489.1171

506.9817

362.4871

317.1336

5.7419

4.0788

3.5141

1.63 85

0.5903

1.7157

0.9122

1.2586

0.8646

1.0854

NACAL 292 RUN 56	DATE 16 OCT 80	TIME 03	3.25	RECOMP. NO. 1	DISK 1 PAGE 2
JOB NO. 11 LDGR A	ACCT 31302 CONTRACT	1631	SUB ACCT	10001	ACQ DATE 11 JUL 80 20.27
MOD 50 JET FLAP 1 ALF					• •
DATA POINT 1					
			878		
The Proceedings of the Control of th	The second secon	0.6858	0.6912		el-luning to the second of the
	w	0.6873	0.6882		
0.2708 0.1291 0.1223	2 5 2 4 4	0.6887		0.7051	0.6882
0.5453 0.7562	-0.6661			0.6988	
0.7906 0.7801	0.7650 0.7721			0.6889	0.6904
319	0.7742 0.5263			0.6886	0.6889
And the second of the second o	0.7767 0.54	36	The state of the s	-0	•0009
	0.7702 0	•6186	The Committee of the States		0.6893
0.3868 0.2196	0.2365 0.2452 0.2	365 0.21	90 0.68	89 0.2458 0.	2389 0.2271
· · · · · · · · · · · · · · · · · · ·	المراجع والمستقال المراجع	en le en l'une plus pe	• 4090s · · · • • s • • · • • • • • • • • • •	The the terrorian terrorian and the second s	• •

```
NACAL 292 RUN 56 DATE 16 OCT 80 TIME 03.27 RECOMP. NO. 1
                                                                       DISK 1
                                                                                   PAGE 14
JOB NO. 11
              LDGR ACCT 31302
                               CONTRACT 1631 SUB ACCT 10001 ACQ DATE 11 JUL 80 20.41
 MOD 50 JET FLAP 1 ALPHA WIND ON RUN, CMU=1, FWD=44 DEG, C/B & AFT OFF
DATA POINT 7
                                            0.7023
                                        0.7055
                                                 0.7037
                                        0.7058
                                                 0.7047
             0.0586 0.0461
                                                 0.7049
                                        0.7046
          -0.1355
                        -3.0056
                                                             0.7176
                                                                      0.7038
          -0.4103
          0.1971
                       -0.7127
                                                             0.7151
          0.6080
           0.8018
                            0.7925
                                                            0.7163 0.7040
              0.8128 0.8669
                        0.8020
                                 0.5198
                                                               0.7057
                                                                            0.7043
                         0.8047
                                   0.5493
                                                                              0.7035
                          0.7969 0.6331
                                                                        -0.0016
              0.1098 0.0811 0.1098 0.1191 0.1092 0.7151 0.1460 (.1566 0.1079
      0.1447
```

,

NACAL 292	RUN 56	DATE 16 DCT 80	TIME	03.28	RECOMP.	, NO. 1	DISK	1	PAGE 16
JOB NO. 11	LDGR A	CCT 31302 CONTRA	CT 1631	SUB AC	CT 10001	E. 250 ·	ACO DAT	E 11 JUL	80 20.43
MOD 50	JET FLAP 1 ALP	HA WIND ON RUN, CMU=1	FWD≖44 DE	G,C/B & A	FT OFF		•		,
DATA POINT	8				•		. 4. · «	ay same	
				0.7070					
The second of th			0.706	0.70	77	saint - जन्मकारण र जन्म - चार्चिक	plan or - to every or - to p	து சட்டம் மே மி. மி. மி.	то 1 - 16 MI — W
			0.706	3 0.70	61				
		0.0274	0.70	060 0.70	64				
Appendig Frankrik (*) - 1 - 185 AFRICO (* 1871)	-0.2214 -0.6612	-2.8412	, pos, , ÷ pos		y Spirit of Late of Mason	0.7300	0 0.7	075	
	0.0574 0.5215	-0.6624				0.7226			
321	0.7889 0.8078	0.7937	. and we were	•		0.7144		0.7077	
<u></u>		0.8063 0.52	52	mager i mai for mans, all y 2 and millionische ministration	American Marketin, Marketin Print, - Marketin Pr	0.708	31	0.706	53
*:**Chimbold.e.#1 . # * · *		0.8078 0	•5559		, gara e des estados des virtas en estados en el sen	and the second s	0.0009		
alan may any or alann alantic case to 10 · · · · Ala				ia izionimi markitika	A - 1 A A A A A A A A A A A A A A A A A	. Anguer of a law manner factories	- 0	0.7 0016	7055
		0.8058	0.0376				-0.	0016	
0.	1485 -0.0196	-0.6380 0.0199	0.0742	0.0561 0	.7126	0.0879	0.1141	0.0723	
appear a region of the control of th	<u>.</u>	n in growing and an analysis of support the second support	the area of an artist measure (Complete vision			4.1 S MANAGEM - 7 AME	and decomply-any sales 1 to a		
				•					

•.					•	Shape - Special St		
NACAL 292	RUN 56	DATE 16 OCT	80 TIME	03.29	RECOMP. N	0. 1	DISK 1	PAGE 20
JOB NO. 11	LDGR ACC	T 31302 CON	TRACT 1631	SUB ACC	T 10001	A	CO DATE 11 JU	L 80 20.46
MOD 50 J	ET FLAP 1 ALPHA	WIND ON RUN, CM	IU=1,FWD=44 DE	G,C/B & AF	T OFF			
DATA POINT	10		· •. • • • • • • • • • • • • • • • • • •		ay . Parameter	a e e se 1921	.*	
				0.7001				
		a a a a designativa	0.703	35 0. 702	20		· · · · · · · · · · · · · · · · · · ·	· ***
			0.70	10 0.70	10	-		
	0.4430 0 0.3750	•6102 -0•9513	0.70	0.70	26	0.7251	0.7044	
	0.2246 0.5878 0.7221	0.0761			0	.7213		
ω ω Ν	0.8148 0.8083 0	0.7588 .8041	<u>.</u>	84 - 49 - 21 - 2	0.	7088	0.7054	
	, , <u>.</u> _	0.7989	0.6343) ig i g manuser (g i g merth 407666	y, y, to - grain had a granded changed change to the help in	0.7024	0.70	21
		0.8038	0.5955	age viria — and in the second	and the state of the state of the state of	-0.	0009	
*******		0.78	318 0.6026	constitution of the second	and a second second	ana wa wa	-0.0016	7064
0.7	350 0.6539	0.6464 0.6389	9 0.5160	0.5085 0	.7226 ⁻ 0.2	745 0.2	514 0.1940	,
						and Committee	•	

and the second companies of the second companies of the second companies and the second companies of t

4

ACAL DB ND	J• 11	LDGR ACC	T 31302		TIME 03.	JB ACCT 100	MP• NO• 1 .			PAGE 22
MOD	51 JET FL	AP 1 ALPHA	WIND ON RU	N,CMU≃2,FWD	≖44 DEG•C/E	3 & AFT OFF	•		11 JUL A	10 21.56
				9	SUMMARY PAG	SE		14.58 1		
חא די 1	ALPHA H	THETA	CLH THRUST	C DH D EL A L	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PT PCRH CDHR	РТРАСН
2	1.6023 1.4000 -2.4040	-85.3555	5•6958 257•6686	-0.4627 1.6239	1.3054 2.4019		7373.3451 1.8826	2.2348 0.0013	0.007	
3	1.4000	-82.4275	5.1644 229.1876	-0 .6865 1 .4676	1.0266 2.4172			2.2367 0.0013	1.0001 -0.6879	1.0005
4	1.4000	7.1727 -78.9238 7.0726	4.4342	-0.8672 1.2611	0.6967 2.4250	~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	5869.0905 1.9254	2.2409 0.0014	0.5994 -0.8684	0.4994
323 5	1 /000	7.2133	3.8033 172.1183	-1 .0398 1.0823	0.3948 2.4275	1208.0895 85.1681	5091.7135 1.9510	2.2397 0.0014	0.9995 -1.0413	0.4990
ક	1.4000 5.7156	-85.4417 7.2264	5.7360 256.1830	-0.4573 1.6350	1.2979 2.4185	1426.2817 85.1985	7330.2627 1.9136	2.2369 0.0014	0.9991 -0.4587	0.5091
7	1.4000	-88.5361 7.0909	6.4712 288.7212	-0.1653 1.8511	1.6191 2.3578	1518.8243 85.3101	8162.2608 1.9127	2.2400 0.0013	0.5938 -0.1667	0.9997
8	1.4000	89.0630	7.0956 310.5834	0.1160 2.0380	1.9080 2.4219	1624.8309 85.34.1	8776.2440 1.9500	2.2398 0.0014	0.5590 0.1146	0.9989
ċ.	1.4000	7.1075 86.8915	7.5773 332.8909	0.4115 2.1903	2.1778 2.4211	1840.4397 85.1906	9371.4920 1.9419	2.2367 0.0014	0.9989	0.9793
10	1.4000	7.0854 82.6524	4.5547 218.4749	0.6389 1.4970	1.2272 2.3731	1853.5455 84.9560	6341.2539 1.9426	2.2233 0.0014	0.6994 0.6374	0.9991
10	20.5760 1.4000	7•0550 79•6613	4.7579 210.5979	0.8679 1.4568	1.2407 2.3752	1808.5445 85.0461	5826.7677 1.9531	2.2376 0.0014	0.9990 0.8665	0.9988

									0
								DISK 1	
JOB NO. 11	LDGR A	CCT 31302	CONTRACT	1631	SUB ACC	T 10001	eren eren i appearen i i	ACQ DATE 11	JUL 80 21.38
MOD 51 JET	•								
5474 557							,	General States - See Annual States - See Line	ender treet to league in .
DATA POINT 1		•••	1 1500 100 MG M S. W.			E2-3-2	ne en salada er erk	and the same of th	• •
				•	0.3610				
Antonio and Antonio Control and Control an	*		* more per protop -(C-1 physical parts - manual parts	0.361	0.358	7		and desires repulling absorbing a lay or op pagency upon the	Management May 10 to 47 engs 2 coming par
			r B in the Observation and access of	0.359	0.357	8			
	0.0873				98 0.358	1		0.3585	•
0.	0.0276 .2196 0.3764	-0.7	318				0.3407	at	5 Per - Marie 10 Per
	0.4131		•3619		er-mand at my me were manufacturing		0.3345	0.360)2
		⁻ "0 _• 40	45 0.2758	e entracted on a - pass y a			0.35		. 3585
makanin kind ili dirami aran yan ki yi ya i			•4046 0.26	19	to the control of the	de to be about subject	-16 15 10 10 10 10 10 10 10 10 10 10 10 10 10	-0.0009	••
maner was as a	••	rene kara kana mining	0.3998 0	.3080	·	Pi - er plettingstand		-0,0016	0.3576
0.1254	0.0786	0.0711	0.0673 " 0.0	611 0,	0592 0.3			0.0798 0.066	
		i Maria de la casa de							·
			•					, and the second second	
Name 49 -					Pr Audr 1999 in 1844 i 2 mg is		44 mar = 4	•-	

entroller of the control of the cont

NACAL 292 RUN	57 DATE	16 007 00	TIME	20.10	_			J
JOB NO 13	57 DATE	20 (10) 80	IIME	03.42	RECOMP. N	0. 1	DISK 1	PAGE 14
DOD NO. II	LUGR ACCT 31302	CONTRACT	1631	SUB ACCT	10001	A.C.	DATE 11 .H	II RN 21.52
MOD 51 JET FLAP	1 ALPHA WIND O	N RUN, CMU=2, FH	D=44 DEG	C/B & AFT	OFF			2 00 21 52
		•			ter in email of the company	Wheel makes in all particular states in a	e e encentra e siste e e	σ.
DATA POINT 7		•						
			0.	3587	•			
Annual to the composition of Riving	· Mexic	i francis es generales es es es es es es						
			0.3595	0.3585	· # # · G - Schrönerpreiser, gezag c a · ·	madi - se distributo y 1 talent entenendo quest virtua aprima	······································	entra incia di mining tent
Note: St. perior - Note: -		one agricone ,	0.3598	0.3584				
-0.	0625 -0.0521		0.3582	0 2502		н -		
-0.148 -0.3551	-2.6	550			The common and	0.3401	0.3578	
0.0056 0.2715	-0.	7674				3463		
0.402	20	0.3781	ara e roomany .	o en la company p.			0.3615	
325 0•	4125 0.4119				0.3	45 (0.3615	
新・朝けらの 大阪 sag s a control ppp	0.4	080 0.2652		Annual Continues and all contain Parks with Annual Prints		0.3595	· J· 🖚 b	t Processor
Alternation of the World or							0.360	15
· · · · · ·	· · · · · · · · · · · · · · · · · · ·	0.4060 0.260	7 *	- 1994 r Mark	one are a community of	-0.00)9	
An effective of the same	e de manera, en empresa a paga maga	0.4065 0.	2954"	* • **********************************	் சிலைம் வரும்மான நூ	PTT - Militaria III - No Ellas - 19 - 12 - 1	-0.0016	605
0.0692 0.0	0093 -0.0159	-0.0239 -0.01	47 "-0.01	184 0,35	32 ~ 0.000	69 0.0149	0 -0.0269	
Milesian v pr. ti adam. dy	e de la compresa del compresa de la compresa del compresa de la compresa del la compresa de la compresa dela compresa della compresa dela compresa della compresa della compresa della compresa della com	and J. C. B. Galler Spain Co. St. St. St. State Spain	n company on a company on the co	to company and the second				
						C	mar an . aca se-	* · · · ·

The state of the s

and the second of the second o

NACAL 292 RUN 57	DATE 16 OCT 80	TIME 03	3.42	RECOMP. NO.	1	DISK 1	PAGE 16
JOB NO. 11 LDGR ACC	T 31302 CONTRACT	1631	SUB ACCT	10001	AC	Q DATE 11 JUL	80 21.53
MOD 51 JET FLAP 1 ALPHA	WIND ON RUN, CMU=2, F	WD=44 DEG+0	C/B & AFT	OFF	B 🖦 · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
DATA POINT 8	et On a ray			tama cata dakare-sa sa		æ	
		0.3	3587				
Mahada Quandani (alan kajan) - 27 - 0	प्राप्तकारणा स्थापना व्यवस्थाला ।	0.3578	0.3592	-ay menag - n menagyanan na na }	ye . A years da	_	
### · · · ·	,	0.3567	0.3584				
-0.2073 -0 -0.2183	•0693 -2•4685	0.3570	0.3576		345 7	0.3593	
-0.5146 -0.0926	-0.7502		·	0.34	94		
0.1994 0.3914 0.4040 0	0.3819 .4065	.		0.343	2	Ე∙3587	
ggynga man na annan e e e e e e e e e e e e e e	0.4074 0.2652	- 00-4 F(B, #8 399 6 .	in need to the Comme	0	•3592	0.358	1
ere tall about it als inference. A commissioner to the second seco	0.4065 0.2	533	• .	26 20 7 - Administrative Section 1	-0.0	009	
	0.410B	0.2904	ويد لا لا المواجعة المعادمة ا	w com wan and and a c	PROGRAMME S WE	-0.0016	595
0.0542 -0.0932 -	0.1147 -0.08830.0	0441 ~-0.06	13 0.3	538 ~0.0312	-0.019	96 -0.5343	
speciment residual.	and the second state of the second state and common the second state of the second sta	Organization of the second state and second	displayer Samples Sales of the sales	27 - SAME (C SAME A) SAME (C	Promonentario Saure P. C.	. w • s · · ·	W F
• • • • • • • • • • • • • • • • • • • •	en communicación de descriptores propries en la companya de la companya del companya de la companya de la companya del companya de la company	न राजस् ∼ द राजका	934 (D (# 633) A (# 44)	F & F & F & B & E		* *	

ACAL 292 RU	JN 57 DATE 16	OCT 80 TIME	03.43 RECOMP	" '• NO• 1 DI	SK 1 PAGE 20
	LDGR ACCT 31302				
	AP 1 ALPHA WIND ON RU				
ATA POINT 10		•		9 P. C. 1994 (1994	-
		-	0 .3 595	· · · · · · · · · · · · · · · · · · ·	
No. No. 0 - a plane - ag		0.361	0 0.3581	arramananan estas	नेर्देश के ए का प्रश्नासम्बद्धाः हा हुन्न
Market 1971 at		0.356	7 0.3582	• •	
0.1		0.35	81 0.3587	0.34570	•3608
0.249 0.38	-0.247	2		0.3482	
0.4		569	e e e	0.3394	0.3625
And the control of th	0.4062	0.3197	Professional control of the control	0.3579	0.3596
	0.4	057 0.3011	PERFORM NO. 1.11 MARCON	-0.0009	
		0.4074 0.2958			0.3593
0.3987	0.3170 0.2958 0.	2933 0.2433 0.	2121 0.3432	0.1622 0.1260	0.0474
4. • • • • • • • • • • • • • • • • • • •	Own riby: was now or a passion of the	and the state of the States of the States and the state of the States of	The second second labeling of the second sec	- I I I I I I I I I I I I I I I I I I I	Maria Caron Br
	e e la esta e de como de la como	entendence have a series of the last of the series of the	was among the county planes (planes) and (1.52 (1.7 fg)).		onemental entregration of the second

1 4± ·--

RECOMP NO. 1 LOGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACC DATE 11 JUL BO 22.222 MOD 52 JET FLAP 1 ALPHA MIND ON RUN- CMD 4 FHD E4 DEG, C/B 6 AFT OFF FT SUBMARY PAGE TOFF FT SUBMARY PAGE TOFF FT TOFF FT TOFF FT TOFF TOFF								•			
NOD 52 JET FLAP 1 ALPHA MIND ON RUN.CMU=4,FND=44 DEG,C/B 6 AFT OFF PT S PA 14.40 14.228	IACAL	292 R L	IN 58	DATE 16	TCT 80 7	TIME 04.02	RECOMP	• NO• 1	DISK	1	PAGE 24
NOD 52 JET FLAP 1 ALPHA MIND ON RUN.CMU=4,FND=44 DEG,C/B 6 AFT OFF PT S PA 14.40 14.228	IOB NO.	11	LDGR ACCT	31302 (CONTRACT 16	31 SUB	ACCT 10001		ACO DATE	11 JUL 8	0 22.22
T NO			•								
T NO	MOD 5	2 JET FLA	IP 1 ALPHA	WIND ON RUN	• CMU = 4 • FWD = 4	44 DEG,C/B	& AFT DFF		$\mathbf{P}_{\mathbf{T}_{\mathbf{Q}}}$	PA	
T NO ALPHA H O H THETA THRUST DELAL WFT THTH CMUTH CDR CDHR PTPCH CDRR 1 1.9649 3.5885 7.4686 -1.5761 1.5313 1578.88565 9059.2303 2.2624 0.5994 1.0002 1.4000 -78.0836 169.0615 1.9941 2.4385 85.7552 3.8736 0.0013 -1.5774 1.0002 1.4000 -74.8161 156.3508 1.7724 2.4297 85.9251 3.7704 0.0012 -1.7982 1.4000 -70.8775 139.8055 1.5828 2.3842 85.8471 3.8441 0.0012 -2.0520 1.4000 -70.8775 139.8055 1.5828 2.3842 85.8471 3.8441 0.0012 -2.0520 1.4000 -65.5159 120.8461 1.3132 2.4400 85.7977 3.7997 0.0012 -2.2120 1.4000 -76.8082 1.70.2290 2.4085 85.7957 3.7997 0.0012 -2.2120 1.4000 -76.8082 1.70.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.57724 1.6000 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.5724 1.0000 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 1.4000 -82.6236 186.6065 2.2664 2.4481 85.9122 3.9200 0.0011 -1.0943 1.4000 -82.6236 186.6065 2.2664 2.4481 85.9122 3.9200 0.0011 -1.0943 1.4000 -82.6236 186.6065 2.2664 2.4481 85.9122 3.9200 0.0011 -1.0943 1.4000 -82.6236 186.6065 2.2664 2.4481 85.9122 3.9200 0.0011 -1.0943 1.4000 -88.3156 212.6039 2.6480 2.4480 85.9122 3.9200 0.0011 -1.0943 1.4000 -88.3156 212.6039 2.6480 2.4480 85.9122 3.9200 0.0011 -1.0943 1.4000 88.7376 22.0039 2.44830 2.4480 85.9122 3.9200 0.0011 -0.7381 1.4000 -88.3156 212.6039 2.6840 2.4480 85.9122 3.9200 0.0011 -0.07381 1.4000 88.7376 22.4031 2.4460 85.9182 4.0051 0.0010 0.2289 0.9999 1.0000 1.4000 88.7376 22.44612 2.8469 2.4480 85.9182 4.0051 0.0010 0.2289 0.9999 1.40000 88.7376 22.44612 2.8469 2.4480 85.9182 4.0051 0.0010 0.2289 0.9999 1.40000 88.7376 22.44612 2.8469 2.4480 85.9182 4.0051 0.0010 0.2289 0.9999 1.40000 88.7376 22.44612 2.8469 2.4480 85.9182 4.0051 0.0010 0.2289 0.9999 1.40000 88.7376 22.44612 2.8469 2.4480 85.9182 4.0051 0.0010 0.2289 0.9999 1.40000 88.7376 22.44612 2.8469 2.4480 85.9182 4.0051 0.0010 0.2289 0.9999											
PHI THETA THRUST DELAL WFT THTH CMUTH COR CDHR					SU	JMMARY PAGE			21710	7.20	
1 1.9649 3.5885 7.4686 -1.5761 1.5313 1578.8565 5059.2303 2.2624 0.5994 1.0002 1 1.4000 -78.0836 169.0615 1.9941 2.4385 85.7952 3.8736 0.0013 -1.5774 2 -2.0024 3.6923 6.6212 -1.7969 1.1995 1501.4219 4670.8690 2.2658 0.5996 1.0004 3 -6.0809 3.6182 5.5149 -2.0508 0.9038 1465.6889 4251.5127 2.2658 1.0001 1.0001 4 -10.1224 3.6584 4.8707 -2.2180 0.5862 1494.8971 3840.4566 2.2635 0.9993 1.0002 5 2.1279 3.5891 7.5268 -1.5713 1.5075 1588.2984 5035.7332 2.2631 0.5993 1.0000 1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.6726 0.0011 -1.5724 6 6.1649 3.5508 8.4441 -1.0931 1.8543 1620.2340 5486.1308 2.2655 0.9999 1.0000	T NO	ALPHA H	ρН	CLH	CDH	СМН	YM	RL	PTPFCH	PTPCBH	PTPACH
1.4000 -78.0836 169.0615 1.9941 2.4385 85.7952 3.8736 0.0013 -1.5774 2 -2.0024 3.6923 6.6212 -1.7969 1.1995 1501.4219 4670.8690 2.2658 0.6996 1.0004 1.4000 -74.8161 156.3508 1.7724 2.4297 85.9251 3.7704 0.0012 -1.7982 1.0004 1.4000 -70.8775 139.8055 1.5828 2.3842 85.8471 3.8441 0.0012 -2.0520 1.0001 1.0011 1.0011 1.0011 1.0012 1.4000 -70.8775 139.8055 1.5828 2.3842 85.8471 3.8441 0.0012 -2.0520 1.0002 1.4000 -65.5159 120.8461 1.3132 2.4400 85.7977 3.7997 0.0012 -2.2192 1.0002 1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.5724 1.0000 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.5724 1.0000 1.4000 -85.3462 20.7062 2.4430 2.4368 85.9122 3.9200 0.0011 -1.0943 1.4000 -85.3462 20.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 81.4000 -85.3462 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 81.4000 -85.3462 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 81.4000 -85.3462 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 81.4000 -85.3462 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 81.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.27924 9.18.1184 3.5079 10.3462 0.2279 2.6840 2.4460 85.9182 4.0051 0.0010 -0.27924 9.18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2655 0.5989 0.9999 10.0000 10.2269 10 22.2727 3.2824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.5995 0.9999		PMS	THETA	THRUST	DELAL	WFT	нтнт	CMUTH	CDR	CDHR	
1.4000 -78.0836 169.0615 1.9941 2.4385 85.7952 3.8736 0.0013 -1.5774 2 -2.0024 3.6923 6.6212 -1.7969 1.1995 1501.4219 4670.8690 2.2658 0.6996 1.0004 1.4000 -74.8161 156.3508 1.7724 2.4297 85.9251 3.7704 0.0012 -1.7982 1.0004 1.4000 -70.8775 139.8055 1.5828 2.3842 85.8471 3.8441 0.0012 -72.0520 1.0011 1.0011 1.0011 1.0011 1.0012 1.0012 1.0012 1.0002 1.4000 -70.8775 139.8055 1.5828 2.3842 85.8471 3.8441 0.0012 -72.0520 1.0002 1.4000 -65.5159 120.8461 1.3132 2.4400 85.7977 3.7997 0.0017 -22.2192 1.0002 1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.5724 1.0000 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 1.0000 1.4000 -85.3462 200.7082 2.4430 2.4488 85.9122 3.9200 0.0011 -1.0943 1.4000 -85.3462 200.7082 2.4430 2.4488 85.9122 3.9200 0.0011 -1.0943 1.4000 -85.3462 200.7082 2.4430 2.4488 85.9122 3.9200 0.0011 -1.0943 1.4000 -85.3462 200.7082 2.4430 2.4488 85.9122 3.9200 0.0011 -1.0943 1.4000 -85.3462 200.7082 2.4430 2.4488 85.9122 3.9200 0.0011 -1.0943 1.4000 -85.3462 200.7082 2.4430 2.4488 85.8603 3.8876 0.0011 -0.7381 1.4000 -85.3462 200.7082 2.4430 2.4488 85.8603 3.8876 0.0011 -0.7381 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.72924 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.72924 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269	1	1.9649	3.5885	7.4686	-1.5761	1.5313	1578.8565	5059,2303	2.2624	0.5994	1.0002
1.4000 -74.8161 156.3508 1.7724 2.4297 85.9251 3.7704 0.0012 -1.7982 3	-										
1.4000 -74.8161 156.3508 1.7724 2.4297 85.9251 3.7704 0.0012 -1.7982 3	2	-2-0024	3.6023	6.6212	-1 7969	1.1995	1501_4219	4470 8490	2.2658	n coak	1.0004
3	۲.										1.00///4
1.4000 -70.6775 139.6055 1.5828 2.3842 85.8471 3.8441 0.0012 -2.0520 4 \(\omega \) -10.1224 3.6584 4.8707 -2.2180 0.5862 1494.8971 3840.4566 2.2635 0.9993 1.0002 1.4000 -65.5159 120.8461 1.3132 2.4400 85.7977 3.7997 0.0012 -2.2192 1.0002 1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.5724 1.0000 1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.5724 1.0000 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 1.0000 1.4000 -85.3482 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 1.0000 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0011 -0.7381 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2024 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 1.00999 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 1.009999 1.4000 0.2269 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 0.9999						4 4 - 4					
4 \$\begin{array}{cccccccccccccccccccccccccccccccccccc	3										1.0011
\$\capacture{\cute{\cut		1.4000	-70.8775	139. 8055	1.5828	2.3842	85.8471	3.8441	0.0012	-2.0520	
\$\begin{array}{cccccccccccccccccccccccccccccccccccc		-10.1224	3.6584	4.8707	-2.2180	0.5862	1494.8971	3840.4566	2.2635	0.9993	1.0002
1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.5724 6 6.1649 3.5508 8.4441 -1.0931 1.8543 1620.2340 5486.1308 2.2655 0.9999 1.0009 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 7 10.0580 3.5782 9.0579 -0.7370 2.1566 1705.8596 5878.7450 2.2633 0.6992 1.0000 1.4000 -85.3482 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 8 14.0966 3.4757 9.9063 -0.2913 2.4682 1827.4719 6169.5560 2.2642 0.9985 0.9992 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.3824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	28	1 #4000	-65.5159	120.8461	1 -31 32	2.4400	85.7977	3.7997	0.0012	-2.2192	
1.4000 -78.2082 170.3290 2.0085 2.4351 85.7864 3.8726 0.0011 -1.5724 6 6.1649 3.5508 8.4441 -1.0931 1.8543 1620.2340 5486.1308 2.2655 0.9999 1.0009 1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 7 10.0580 3.5782 9.0579 -0.7370 2.1566 1705.8596 5878.7450 2.2633 0.6992 1.0000 1.4000 -85.3482 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 8 14.0966 3.4757 9.9063 -0.2913 2.4682 1827.4719 6169.5560 2.2642 0.9985 0.9992 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.3824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	5	2-1279	2.5091	7.5268	-1 -5713	1.5075	1528.2984	5035 - 7332	2-2631	0 - 6003	1.0000
6										-	20,,,,,
1.4000 -82.6236 186.6065 2.2664 2.4081 85.9122 3.9200 0.0011 -1.0943 7 10.0580 3.5782 9.0579 -0.7370 2.1566 1705.8996 5878.7450 2.2633 0.9997 1.0000 1.4000 -85.3482 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 8 14.0966 3.4757 9.9063 -0.2913 2.4682 1827.4719 6169.5560 2.2642 0.9985 0.9992 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.2824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999											
7 10.0580 3.5782 9.0579 -0.7370 2.1566 1705.8596 5878.7450 2.2633 0.5997 1.0000 1.4000 -85.3482 200.7082 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 8 14.0966 3.4757 9.9063 -0.2913 2.4682 1827.4719 6169.5560 2.2642 0.9985 0.9992 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.9989 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.2824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	6										1.0009
1.4000 -85.3482 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 8 14.0966 3.4757 9.9063 -0.2913 2.4682 1827.4719 6169.5560 2.2642 0.9985 0.9992 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.3824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999		1.4000	-82.6236	186.6965	2.2664	2.4081	85.9122	3.9200	. 0.0011	-1.0943	
1.4000 -85.3482 200.7062 2.4430 2.4378 85.8603 3.8876 0.0011 -0.7381 8 14.0966 3.4757 9.9063 -0.2913 2.4682 1827.4719 6169.5560 2.2642 0.9985 0.9992 1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.3824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	7	10.0580	3.5782	9.0579	-0.7370	2.1566	1705.8596	5878.7450	2.2633	0.6992	1.0000
1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.9989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.2824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999										-0.7381	
1.4000 -88.3156 212.6039 2.6840 2.4460 85.9182 4.0051 0.0010 -0.2924 9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.2824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	Ω	14 0966	2 4757	Ø 60.43	_n 2012	2 4682	1827 4710	£140 5540	2 2642	A 0085	0.9992
9 18.1184 3.5079 10.3462 0.2279 2.7224 1914.0135 6540.0482 2.2645 0.5989 0.9998 1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.2824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	O	•									0.7772
1.4000 88.7376 224.0612 2.8409 2.4392 85.8990 3.9674 0.0010 0.2269 10 22.2727 3.3824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999		1 4 4000	10001100	2124(103)	2 10040	2.44400	0.3.7102	4.0001	0.00010	W 2 72 F	
10 22.2727 3.3824 11.2878 0.8124 2.9677 2041.5305 6788.2342 2.2674 0.9995 0.9999	0	18.1184	3.5079	10.3462	0.2279	2.7224	1914.0135	6540.0482	2.2645	0.5989	0.9998
		1.4000	88.7376	224.0612	2.8409	2.4392	85.8990	3.9674	0.0010	0.2269	
	10	22.2727	3.2824	11.2878	0.8124	2.9677	2041.5305	6788 . 2342	2.2674	0.9995	0.9999
	- "										

MACAL 292 RUN 58 DATE 16 OCT 80 TIME 04.02 RECOMP. NO. 1 DISK 1 PAGE 25 JOB NO. 11 LDGR. ACCT 31302 CONTRAC; 1631 SUB ACCT 10001 ACO DATE 11 JUL 80 22.22

£ .

MOD 52 JET FLAP 1 ALPHA WIND ON RUN, CMU=4, FWD=44 DEG, C/B & AFT OFF

SUMMARY PAGE

ON TO	ALPHA H PHI	O H Theta	CLH THR UST	CDH Delal _.	CMH WFT	YM Thth	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	22.1988 1.4000	3.4672 85.9563	11.0020 236.0274	0.7777 3.0533	2.9428 2.4469	2056.8804 85.9256	6791.6318 4.0152	2.2632 0.0010	0.9991	0.9997

```
ACAL 292 RUN 58 DATE 16 OCT 80 TIME 03.58 RECOMP. NO. 1
                                                                    DISK 1 PAGE 2
OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 11 JUL 80 22.08
MOD 52 JET FLAP 1 ALPHA WIND ON RUN, CMU=4, FWD=44 DEG, C/B & AFT OFF
ATA POINT 1
                                          0.1811
                                       0.1821 0.1839
                                      0.1831 0.1819
            -0.0012 -0.0392
                                       0.1821 0.1811
                      -2.2885
         -0.0472
                                                        0.1673 0.1784
         -0.0785
         0.0661
                      -0.7483
                                                          0.1648
         0.1782
          0.2091
                         0.1698
             0.2115 0.2074
                   0.2044
                               0.1515
                                                                         0.1839
                          0.2035 0.1137
                                                                           0.1822
                           0.2038 0.1202
                                                                     -0.0016
     0.0874 -0.0049 -0.0110 -0.0049 -0.0098 - .0153 0.1642 0.0043 -0.0055 -0.0135
```

ACAL 292 RUN 58 DATE 16	OCT 80 TIME 04.0	RECOMP. N	0. 1	DISK 1	PAGE 14
OB NO. 11 LDGR ACCT 31302	CONTRACT 1631 SU	B ACCT 10001	ACC	DATE 11 JUL 1	30 22.18
MOD 52 JET FLAP 1 ALPHA WIND ON RE	N, CMU=4, FWD=44 DEG, C/B	& AFT OFF	- · · · · · -		
DATA POINT 7		_ ~ ~ ~ ~	· 	.	
	0.180	7			
	0.1833	0.1844		, <u>, , , , , , , , , , , , , , , , , , </u>	
	0.1850	0.1839	,	<u>-</u>	
-0.0798 -0.0699 -0.1344 -2.3597	0.1855	0.1831	0.1748_	0.1819	
-0.2639	51		0.1673		
0.2115 0.2111	1686				
	3 0.1405				, <u>,</u>
0.	2114 0.1101	g g g g g g g g g g g g g g g g g g g	-0.0	0009	and at 1
	0.2097 0.1236			-0.0016	351 _ , ,
0.0449 -0.0251 -0.0687 -0	.0564 -0.0442 -0.054	6 0.1648 -0.		362 -0.0663	. •

· ••••				•					/-
EACAL 29	2 RUN 58	DATE 16 NO	T 80 TIME	04.01	RECOMP. NO.	1	DISK	1	PAGE 16
JOB NO. 11	L LDGR A	CCT 31302 CO	INTRACT 1631	SUB ACC	T 10001	· · · · · · · · · · · · · · · · · ·	O DATE	33 00	00 00 10
MDD 52	JET FLAP 1 ALPH	HA WIND DN RUN+C	MU=4,FWD=44 DE	G,C/8 & AF	T OFF	P. C. C. COMMAND & M.		11 JUL	80 22.19
JATA POINT	Г 8								-
		٠ ـ	Section (Asset)		e e e e e e e e e e e e e e e e e e e				
				0.1827					
		The second secon	0.185	6 0.1844	D : 1 1 1 1 1 1 1 1 1 1			anny . Wymana, g.y.,	The second secon
.,			0.185						
-	-0.1602 - -0.1872 -0.3572	0.0822 -2.2836	0.10	10 0 1000	-			Q	• .
	-0.1043 0.0725	-0.7489			0.1	573			The second of th
3 3 N	0.1987 0.2051				0.16	48 ⁻	0.	1842	
	- 1	0.2047						 0.1862	TO A COMMENTER
		0.2055							-
		0.20							45
0.0	299 -0.1172 -	-0.1276 -0.1129	-0.0773 -0.	0791 0.1	648 -0.0460	-0.049	1 -0.0	0828	
•		. <u>-</u> ما د ما	or the same of the	transista de la compansión	THE ROLL SERVICE AND THE PERSON OF THE PERSO	· • • • • • • • • • • • • • • • • • • •	e en l	. <u>.</u>	

											2
IACAL 292	RUN	58	DATE 1	16 OCT 80	TIME	04.01	RECOMP	. NO . 1	DISK	1	PAGE 20
IOB NO. 11	Li	DGR ACC	T 31302	CONTRACT	1631	SUB A	CCT 10001		ACQ DATE	11 JUL	80 22.21
MOD 52 JET	T FLAP	1 ALPHA	WIND ON F	RUN, CMU=4, F	-WD=44 DS	G,C/B &	AFT OFF	oun speed and blass () . White - Man			
DATA POINT 10	0			car, A: w				gue ar sus i i su i i su mar mano			
						0.1797					
dente de la companya			** -	்து பிடிக்கத் இரும் இரு	0.181	4 0.1	833		i⊆g san - reserve felir	inger i der der ver	•
and wanted to 1997 to 1					0.182	7 0.1	824				
	-0.258	4	.1620 -1.765	5	0.18	927 0.1	814	0.169	8 0.18	08	
	-0.2578 0.1012		-0.6	3 84				0.1636			
-	0.0223 0.168 0.		·2106	.1548		(a company de description (c.) a 1986 for	and the comments	0.1673		•1824	
ယ ယ ယ	. • •	<u>.</u> .	0.20	83 0.146	3			0.18	33	0.184	· - •5
		, a gas comment	0	.2098 0.	1246		, nas ra 687 843	(16) april 1000 - 1 to 1000 april	-0.0009	* .	yez za bi i inden (yeze)
		are as		0.2086	0.1475	4 - 200 and 10 a	الله المعادد ا	managa at time demonstrate a religional film o	-0.0		1830
0.00	37 -0.	2167 -	0.2369 -	0.21600	.1718 -0	.1479	0.1617 -	0.0761 -	0.0841 -0	•1240	
and the wife in the second sec			• · ·		, , , , , , , , , , , , , , , , , , , 		• • • • • • • • • • • • • • • • • •	a gamena, aman andre sagar e - og dere	gicine screens as an a dead files		•.
AB +		•	ar sal	AND							

e de servicio de la companya de la c En la companya de la

IACAL 292 RUN 60 DATE 16 DCT 80 TIME 04.22 RECOMP. NO. 1 DISK 1 PAGE 22 108 NO. 11 LDGR ACCT 31302 CONTRACT 1631 **SUB ACCT 10001** ACQ DATE 11 JUL 80 23.39 $^{\mathbf{P}}_{\mathbf{A}}$ MOD 54 JET FLAP 1 ALPHA WIND ON RUN.CMU=0.FWD=34 DEG.C/B & AFT OFF 14.92 14.218 SUMMARY PAGE ON T ALPHA H θН CLH CDH YM CMH RL PTPFCH **PTPCBH** PTPACH PHI THETA TIP UST DELAL WFT THTH **CMUTH** COHR CDR 1 0.3253 14.3523 0.7279 0.3221 0.2039 -244.7654 1913.0391 0.9958 0.9094 1.0000 1.4000 66.1263 70.5167 0.2166 0.0867 0.2039 0.0000 0.0023 0.3221 2 -3.5867 14.4054 0.4689 0.2878 -0.0516 -338.6229 1336.4215 0.9963 0.9995 1.0003 0.1375 0.2877 1.4000 58,4587 48.9227 0.1721 0.3152 0.0035 0.0000 0.9956 3 -7.4616 14.1400 0.5056 0.2876 -0.2493-374.2606 1366.3587 0.9912 0.2999 0.1488 1.4000 60.3702 50.7713 0.1042 0.2811 0.0032 0.0000 0.2075 334 -11.2487 0.9090 14.4042 0.0386 0.2671 -0.5419 -186.4691 91.8635 0.9955 0.9995 1.4006 8.2385 24.0012 0.0061 0.1269 0.2412 0.0027 0.0000 0.2671 0.9993 5 0.3164 14.4024 0.7250 0.3245 0.1937 -274.2264 1937.8169 0.9957 0.0964 0.2170 0.0000 0.3245 66.0043 70.9409 0.0594 0.1392 0.0015 1.4000 0.9959 6 4.2385 14.1954 0.9356 0.3503 0.4168 -128.40722411.7996 0.9996 0.9994

0.0000 1.4000 69.5517 87.8620 0.2815 0.0431 0.0964 0.0011 0.3503 7 8.0698 14.0748 1.1229 0.3813 0.6330 -112.6025 2852.2504 0.9965 1.0001 1.0000 103.0232 0.3378 0.1569 0.2274 0.0001 0.3812 1.4000 71.2419 0.0026 8 0.9962 0.9996 0.9998 11.8590 14.0749 1.1441 0.7647 -27.24012799.7765 0.4726 1.4000 67.5540 107.5376 0.3445 0.1144 0.1878 0.0021 0.0000 0.4725 9 15.7929 14.1102 1.2400 0.6487 0.8250 -169.3938 2591.8420 0.9965 0.9999 1.0000 0.0000 1,4000 62.3822 121.8789 0.3750 0.0448 0.0145 0.0001 0.6487 10 19.5449 14.1442 1.2967 0.7490 0.9140 -140.5336 2525.7499 0.9956 0.9992 0.9992 1.4000 59.9882 130.7367 0.3934 0.0114 0.0132 0.0001 0.0000 0.7490

```
RUN 60 DATE 16 OCT 80 TIME 04.20 RECOMP. NO. 1
VACAL 292
                                                                       DISK 1
JOB NO. 11
              LDGR ACCT 31302
                               CONTRACT 1631 SUB ACCT 10001 ACO DATE 11 JUL 80 23.33
MOD 54 JET FLAP 1 ALPHA WIND ON RUN.CMU=0.FWD=34 DEG.C/B & AFT OFF
DATA POINT 5
                                            0.7056
                                        0.7073
                                               0.7032
                                        0.7043 0.7008
             0.6432 0.6345
                                         0.7051
                                                 0.7045
           0.6026
                         0.6457
                                                                    0,7039
                                                          0.6788
          0.6488
         0.8087
                        0.6657
                                                            0.6894
          0.7533
           0.7235
                                                           0.6932
                                                                        0.7045
             0.7195 0.7212
                         0.7264 0.6367
                                                                            0.7048
                            0.7256
                                                                              0.7042
                              0.7392 0.6279
                     0.6376 0.6288 0.6270 0.6282 0.6907 0.6326 0.6532 0.6394
```

м. от том по том по

.

.

MACAL 292 RUN 60 DATE 16 OCT 80 TIME 04.21 RECOMP. NO. 1 DISK 1 PAGE 14 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 11 JUL 80 23.35 MOD 54 JET FLAP 1 ALPHA WIND ON RUN, CMU=0, FWD=34 DEG, C/B & AFT OFF DATA POINT 7 0.6994 0.7012 0.7002 0.7006 0.7005 0.5645 0.6082 0.6974 0.7019 0.5058 0.6345 0.6763 0.6975 0.5033 0.7219 0.6644 0.6819 0.7991 0.7734 0.7019 0.6794 0.7002 0.7499 0.7383 0.7361 0.6251 0.6998 -0.0009 0.7320 0.6325 0.7394 0.6353 0.6997 0.6376 0.6282 0.6207 0.6138 0.6126 0.6170 0.6744 0.5995 0.6326 0.6145

IACAL 292 RUN 6 9	DATE 16 DCT 80	TIME 04.2	1 RECOMP.	,	DISK 1 PAGE 16
IDB NO. 11 LDGR A	CCT 31302 CONTRACT	1631 SU	B ACCT 1COO1	ACC	D DATE 11 JUL 80 23.36
MOD 54 JET FLAP 1 ALP					
IATA POINT 8	•		. •	• •	
		0.703	1		
and the second s	page of page and administrative of the	0.7029	0.7019	garana gara takan da sarawa sar	
	. comp	0.7025	0.6981	<i>•</i> ≈ • • • • • • • • • • • • • • • • • •	
0.6295	0.6270	0.6995	0.7012	0.6788	0.7029
0.5845 0.7431	0.6782			0.6838	
0.8066 0.7652	0.7319 0.7482	هر ۱۹۵۵ م. العالم معالم ال	<u></u>	0.6800	0.7029
337	0.7491 0.6390)		0.7026	0.7028
-	0.7479 0.6	375	معاسم فيستمد المرادات المستهدات	-0.0	
parameter than or	0.7483	0.6393	or management of the commencer which the	and the second of the second o	ACO DATE 11 JUL 80 23.36 88
0.6345 0.6351	0.6351 0.6295 0	.6126 0.619	5 0.6707	0.6188 0.62	263 0.6288
and the second second second second second	Commence of the control of the contr	THE STATE OF THE PARTY OF THE P	manager to the state of second part	ه ده ها مست مستودونی	• • • • • • • • • • • • • • • • • • •
				and constructed that the construction of the c	er e

	NACAL 2	292	R UN 69	DATE	16 OCT	80	TIME	04.22	RECOMP.	NO.	1	- DISK	1	PAGE 20
	JOB NO.	11	LDGR	ACCT 31302	CON	TRACT	1631							
.4	MOD 54	4 JET	FLAP 1 AL	PHA WIND ON	RUN, CM	U=0,F\	ID=34 DE	G,C/B & AFT	OFF	rt ar em φer i α	See as a	TO DATE	II Ju	DE 80 23.39
	DATA PO	INT 10												
							(0.6994	• =			7 80		
					•		0.701	0.7006	** · · · · ·			e emercia de la composição	- F#	
							0.701	0.6986						
	Street, and the street, and th	(0.5595).4946	0.6357 0.629	5	• # 1 - 15	0.700	0.6991	No. of the second of the second	0.6	888	0.702	3	
			.6894)•7893	0.6	819					0.686	9			 •
	ယ 		0.7930 0.7669	0.7531	•7444	• 44	· • - • a	e e e e e e e e e e e e e e e e e e e	0	•6832		0.	7032	
			* ** •	0.75	05 0.	6316	0 0 managangan ang	ermonature de pir delle disabble sys : matrice (pr. 19 i	NO NO. M. MARINE DISTRICTURE NA	0.	7023	•	0.702	23
	And the state of t	ring on a	·· •••	0	•7516	0.633	31	· man and an an angelia a	and second a suit is a last to a		·~ - 0	•0009		T 594
•	Marine o paga.				0.751	7 0	.6432	999 S. E. D. Nov Shaddward No. 1. 6 also	· · · · · · · · · · · · · · · · · · ·	** · · · · · · · · · · · · · · · · · ·	elember - y House	-0.00		7011
-	(6544	0.6451	0.6451 (0•6438	· 0 .61	07 0.	6132 0.69	0.0	6338 ~	0.0	5501 0.6	11 JUL 80 23.39 .7032 0.7023	
-	e da commando do a			<u>میں میں میں میں میں میں میں میں میں میں </u>		The second control of		6 - -	antitioners in since any terms we	n e a mainte de la const	· · · •	• .	•	- а

DISK 1 DATE 16 DCT 80 TIME RECOMP. NO. PAGE 22 NACAL 292 RUN 61 04.54 1 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 12 JUL 80 0.01 $^{P}_{T_{S}}$ $\mathbf{P}_{\mathbf{A}}$ MOD 55 JET FLAP 1 ALPHA WIND ON RUN, CMU=1, FWD=34 DEG, C/B & AFT OFF 14.92 14.218 SUMMARY PAGE OM TS CLH CDH CMH YM RL ALPHA H 0 H **PTPFCH** PTPCCH PTPACH PHI THETA THRUST DELAL WFT THTH CMUTH CDR COHR 1 0.9520 13.9136 3.3371 -0.2876 0.7220 1690.2005 8362.7283 2.1862 1.0001 1.0007 1.4000 -85.0737 287.6417 0.9813 2.4428 83.7095 0.9747 0.0017 -0.2894 2 -3.061114.0809 2.7032 -0.3754 0.4284 1461.7551 7228.5078 2.1906 1.0007 1.0006 237.2359 0.7966 83.9492 0.0018 1.4000 -82.0102 2.4279 0.9659 -0.3813 3 -7.0788 14.0461 2.1926 -0.47360.1476 1386.9574 6048.7401 2.1568 1.0003 1.0003 1.4000 -77.8118194.4730 0.6474 2.4065 83.6801 0.9652 0.0019 -0.4755 4 -11.0362 13.9279 1.6582 -0.5347 -0.1559 1448.6715 4699.5659 2.1858 1.0001 0.9999 1.4000 -72.1262149.7716 0.4923 2.4068 83.6532 0.9731 0.0019 -0.5367 339 5 0.9649 14.1247 3.2430 -0.29420.7126 1695.3407 8356.7873 2.1878 0.9999 0.9999

2.4255 1.4000 -84.8153 283.8815 0.9541 83.8832 0.9622 0.0020 -0.2962 6 4.8854 13.9955 3.8050 -0.1574 1.0157 1896.1564 9556.2795 2.1843 1.0006 1.0004 1.4000 -87.6305 328,9613 1.1203 2.4383 83.7079 0.9690 0.0021 -0.1595 7 14.0543 -0.0193 1.0002 0.9998 8.9312 4.3161 1.3038 2094.9862 10640.5885 2.1836 2.3730 0.0021 -0.02151.4000 -89.7425 374.4039 1.2725 83.6491 0.9643 8 12.7865 14.1020 4.8945 0.1649 1.5772 2395.6712 11892.6515 2.1849 0.9995 0.9992 1.4000 88.0703 426.2563 1.4469 2.3719 83.6508 0.9610 0.0021 0.1627 9 1.0007 1.0004 16.7858 14.1496 5.1027 0.4025 1.7905 2726.0639 12463.4645 2.1835 1.4000 85.4898 447.0179 1.5220 2.4479 83.8032 0.9595 0.0022 0.4002 10 0.6909 1.0003 0.9999 20.1783 14.1956 3.5329 1.2510 2408.5349 8902.5117 2.1856 1.4000 78.9340 315.4015 1.0820 2.3919 83.6788 0.9550 0.0022 0.6887

IACAL 292	RUN 61	DATE 16 OCT	AU TIME	04 51	DECDAR NO		_	
		CCT 31302 CON					11 JUL	80 23.43
MOD 55 JI	ET FLAP 1 ALP	HA WIND ON RUN+CM	U=1.FWD=34 DE	G.C/B & AFT	T OFF			
					committee of the property desired the	• • • • • • • • • • • • • • • • • • • •	- 19 2-	
ATA POINT	1	•	,		•			
				0.6858		*	-	
gradual design to the same same		w . r			n e marka aranga sanggaye u je	் அண்ண வண்ண நடித்த		
			U.684	0 •686]				
			0.681	7 0.6866		· 69 —		
		0.2915	0.68	24 0.6875	;			
MATERIAL CONTRACTOR (NO. 1)	0.3015 0.3258	-2.1797	रेटेंड राज्य र सेनी स्थाप राज्य स्थाप के र सेन्स्यापनी स्थाप कर हुआ ।	x Newson beautify-descripe	0.7	0.68	61	2. 重要・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
	0.6617	-2.1509			0.697	'9		
AND SERVICE AND	0.7668 0.7612	0.7322	od boom		0.6935		6060	
	0.7537	0.7444					•0000	
340		0.7414 0.	.5639		0.	6843		
							0.6861	
destructive distribution of the Co.	100-100 MA	0.7454	0.5492	१९६२ - जनसम्बद्धाः स्थापन्य स	mende is not the set of the sets abbricks application of the sets and the	-0.0009		5
* 19	· · · · · · · · · · · · · · · · · · ·	0.749	0.6106	t A 14 44 de minimum.	VIN P. P. S. Administration No	-0.0	0.686 016	
0.43	45 0.3483	0.3670 0.3589	0.3570 0.	3471 0.6	892 0.3577	0.3464 0	3595	300
		AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS		र पत्र वर्षास्त्रका स्थापना स्थापना । स्थापना ।	MET II AN AND THE CONTRACTOR OF THE CONTRACTOR O	and assume to produce in No. 161 ph	1: 1: w ==	1900 1 19000 v
Andrews to de .		· · · · · · · · · · · · · · · · · · ·						
	•					####t to at act we	con	

•

100 -

• • •

recording to the second

THE REPORT OF THE PERSON

ACAL 292 RUN 61 DATE 16 OCT 80 TIME 04.53 RECOMP. NO. 1 DISK 1 OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACC DATE 11 JUL 80 23.56 MOD 55 JET FLAP 1 ALPHA WIND ON RUN, CMU=1, FWD=34 DEG, C/8 & AFT OFF ATA POINT 7 0.6882 0.6885 0.6895 0.6878 0.6866 0.2284 0.1904 0.6886 0.6872 0.0181 -2.3810 0.6967 ___ 0.6897 -0.1141 0.3920 -2.0920 0.6998 0.6914 0.7881 0.7603 0.7060 0.7875 0.7740 0.7617 0.5466 0.6911 0.7643 0.7622 0.6242 -0,0016 0.2909 0.2334 0.2284 0.2528 0.2397 0.2409 0.7017 0.2671 0.2640 0.2447

8 . .

and the second of the second o

Programme of the second section of the second

.

```
DISK 1
                                                                                  PAGE 16
         RUN 61 DATE 16 OCT 80
                                        TIME 04.53
                                                      RECOMP. NO. 1
ACAL 292
                                               SUB ACCT 10001 ACO DATE 11 JUL 80 23.58
              LDGR ACCT 31302
                               CONTRACT 1631
OB NO. 11
MOD 55 JET FLAP 1 ALPHA WIND ON RUN, CMU=1, FWD=34 DEG, C/B & AFT OFF
IATA POINT 8
                                            0.7000
                                               0.7011
                                        0.7010
                                                 0.7020
                                        0.6996
                                                 0.6999
                                         0.6991
                                                             0.7116 0.6993
                       -2.2902
          -0.0460
         -0.3510
                                                            0.7029
                        -1.9668
         0.2409
          0.6158
                                                            0.7017
                                                                        0.7023
                            0.7859
           0.7993
             0.8077 0.7944
                                                  0.7013
                      0.7839 0.5452
                                                                             0.7017
                                                         -0.0009
                        0.7919 0.5460
                                                                              0.6983
                                                                        -0.0016
                              0.7870 0.6313
                                                   0.7091 0.2147 0.2341
            0.1535 0.1335 0.1766 0.1997 0.1929
      0.2185
```

A STATE OF THE STA

^CAL 292	RUN 61	DATE 16 OCT 60	TIME O	5.54 957	COMP NO			
CB NO. 11	I DGR A	ACCT 31302 CONTOAC	7 1/05	, v = 1 = ==	2011 6 #U6	T 012	K į	PAGE 20
	LION I	ACCT 31302 CONTRAC	1631	SUB ACCT 10	0001	ACO DA	TE 11 JU	. 80 23.59
MUD 55	JET FLAP 1 ALF	PHA WIND ON RUN, CMU=1.	FWD=34 DEG O	B & AFT OF	F	100 TO SECURE OF SECURE S. S. SECURE		
TALOG AT							rena premare, as apras. g y	
TA POINT		The second secon	C r-mhanas	· · · · ·	*	the took weather a did to the	· · · · · · · · · · · · · · · · · · ·	-
				060				•
managang ang ang ang ang ang ang ang ang	•		0.7077	0.7053	-		Marian de Maria e dipende (e la comp	^{ந்து ந} ிரி மாகு நிரு
androne y plantage - an			0.7013					
Andrew or a designation of the	0.4513	0.6105		9.7022				 • • • • • • • • • • • • • • • • • •
	0.3989 0.4513 0.3308 0.5618 0.7500 0.8030	-1.4979			0.7198		1054	and and the first of the first
**	0.8030 0.7959	0.7872	Maritan minimata (Minis Sp. 4)	the Annuality mag	0.7185	• Tree ere with a	J.7039	
343		0.7844 0.632	9		0.7	7016		
		0.7907 0.9	5871	The control was probable to the control of the cont	one or contain about 1.0 to 11.5 A principles.	-0.0009	0.703	4
• • • • • • • • • • • • • • • • • • • •	•	0.7740	0.5693	-		-0,	0.70	236
0.7	572 0.6492	0.6380 0.6361 0.	4750 0.388	33 0.7141	0.3158	0.2740	0.2796	
+		The state of the s		· m an common confunctions - is one to			. سو من	
						-		• .

ACAL 292 RUN 62 DATE 16 DCT 80 TIME 05.47 RECOMP. NO. 1 DISK 1 PAGE 22

OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 12 JUL 80 0.24

MOD 56 JET FLAP 1 ALPHA WIND ON RUN, CMU=2, FWD=34 DEG, C/B & AFT OFF

T_S A 14.58 14.228

SUMMARY PAGE

T NO	АСРНА Н РНІ	O H THETA	CLH THRUST	C DH D EL A L	CMH WFT	YM _ THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	РТРАСН
1	1.2481 1.4000	7.1628 -78.1509	4.1501 187.4687	-0.8707 1.1823	0.7587 2.3896	1815.9904 84.7500	5364.6318 1.9170	2.2343 0.0021	0.9992 -0.9729	0.9997
2	-2.8635 1.4000	7.1151 -73.5880	3.4914 159.8403	-1 · C 33 0 · 0976	0.4519 2.3786	1663.1759 84.7975	4689.2293 1.9309	2.2352 0.0021	0.9986 -1.0305	0.9991
3	-6.8782 1.4000	7.0689 -67.9158	2.8561 134.4800	-1 .1588 0 .81 93	0.1537 2.3800	1605.8142 84.8831	4005.3247 1.9455	2.2368 0.0021	0.9090 -1.1609	0.9996
4,	-10.8451 1.4000	7.1195 -61.1493	2.2257 111.6605	-1.2261 0.6442	-0.1490 2.3541	1643.0132 84.8641	3275.9916 1.9312	2.2366 0.0021	0.9995 -I.2282	0. 9999
5	1.1927 1.4000	7.1045 -78.0519	4.1562 186.2867	-0.8795 1.1651	0.7380 2.3807	1809.4950 84.8634	5361.2903 1.9353	2.2371 0.0020	0.9994 -0.8816	0.9995
6	5.2008 1.4000	7.1767 -82.1577	4.8419 216.4995	-0.6669 1.3819	1.0547 2.4054	1925.3774 84.9708	8101.7558 1.9183	2.2365 0.0020	0.9993 -0.6689	0.9996
7	9.2471 1.4000	7.1601 -85.3563	5.5110 244.3507	-0.4476 1.5755	1.3607 2.4109	2033.1951 84.8882	6835.2785 1.9208	2.2323 0.0020	0.9993	0.9992
Я	13.1794 1.4000	7.2377 -88.2801	5•5859 267•6985	-0.1798 1.7226	1.6112 2.3805	2191.3882 84.9037	7427.1742 1.9006	2.2334 0.0019	0.5996 -0.1818	0.9994
Q	17.1379 1.4000	7.2394 89.0595	6.3945 285.7596	0.1049 1.8529	1.8604 2.4065	2446.4635 85.2066	7920.3631 1.9069	2.2379 0.0019	0.9994 0.1030	∪° ՃՃժ೪
10	20.4758 1.4000	7.3267 83.2097	4•5087 205•3295	0.5368 1.3612	1.1246 2.4024	2097.4621 84.7979	5589.0688 1.8751	2.2342 0.0019	0.9996 0.5349	1.0001

IACAL 292 RI	IN 62	DATE 16 OCT 80	TIME 05.44	RECOMP. NO. 1	DISK 1	O PAGE 2
				CCT 10001		
						0.07
HOD SO SET PLA	P I ALPHA WI	NU UN KUN,CMU=2,FW	D=34 DEG,C/B &	AFT OFF	e e e e e	
ATA POINT 1						
THE STATE OF THE S	in the state of th	· Wind Or Abb · · · · · · · · · · · · · · · · · ·	•	وبور والمها المعتقدة والمراجع فالمعتاد المعتاد	d −dd to the term of the term	
			0.3250			
Common of Militaria in Proposition (S. 1994)		Programme and the second secon	0.3223 0.3	252	processors to sentence or services on the second day steps of the page	Microsc -
· · · · · · · · · · · · · · · · · · ·			0.3209 0.3	266		
	0.1497 0.099		0.3152 0.3		•	
0.09 0.11	948 -			0.3389	0.3256	
0.307	6	-2.5822		0.3395		•
	737	0.3376	one observance and many of the first committee of the com	0.3395	·	
345	0.3710 0.371	14		0 6 33 7 7	0.3255	
- ms		0.3686 0.2849	A state of the desired special and place and, at properties where	0.327	0	
				 •	0.3247	
#- · · ·		0.3699 0.23	92	• · · · · · · · · · · · · · · · · · · ·	0.0009	y •
MATERIA (C. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16					0.3270	
		0.3625 0	.2863	The control of the co	-0.0016	
0.2140	1 1472 6 14					
V4217U (7.17 <i>12</i>	0.1441 0.14	447 0.1410 0	.3407 0.1360 0.	1123 0.1298	
mode:		and the second of the second o		and and a special of a special or and a passion open of		
- - ,						

		DATE 16 OCT 80				
10B NO. 11	LDGR A	ACCT 31302 CONTRAC	T 1631 SUB ACC	T 10001	ACQ DATE 12 JUL	80 0.18
MOD 56 J	ET FLAP 1 ALP	PHA WIND ON RUN, CHU=2,	FWD=34 DEG,C/B & AF	T OFF.		****
ATA POINT	7	•			-	
			0.3375			
NICE OF STATE OF STAT		speed - speed - james - james - speed -	0.3363 0.338	7	mana na ang ang ang ang ang ang ang ang a	
м		w •• ••	0.3387 0.338	1		
	0.0667 -0.0595 -0.1613		0.3394 0.3379		0.3387	
	0.1366	-2.4485		0.3432		
	0.3247 0.3939 0.3947	0.3607 0.3915	<u> </u>	0.3482	0.3367	
346		0.3794 0.279	9	0.3398	0.3391	
		0.3841 0.	2330	-0	.0009	•
Section and activities give a supple stage of the control of		0.3805	0.2900		0.33 -0.0016	189
0.1	516 0.0624	0.0549 0.0630 0	.0649 0.0611 0.3	3482 0.0805 — 0.0	0580 0.0699	
व्याप्तास्त्रकेते । १९४४ । १९४ । शर्म के छ े • •					anti-paperigni (artici que se symmetria di una pri pri più agginti	MER THE CA
	•	* Before the grade and a supplementary as a second	en e desta de la compansa de la comp			

The second of th

		•				m/ 1971 00 - 10		•	
ACAL 292	RUN 62	DATE 16 DCT	80 TIME	05.46	RECOMP.	NO. 1	DISK	1 P	AGE 16
OB NO. 11	LDGR ACC	T 31302 CONT	RACT 1631	SUB ACC	T 10001	1984 M-15 pt - 1	ACQ DATE	12 JUL 80	0.19
MOD 56 JET	T FLAP 1 ALPHA	WIND ON RUN+CHU	=2,FWD=34 DE	G,C/B & AF	OFF	inan in menan es sign	n dan gad	<u></u>	
ATA POINT 8	3					ŕ			
		V- V	Y	0.3404		a claus w san	***	,	
militari y - 1 dp - 1		.	0.339	8 0.3400	·)		magnification of the control of the		•
-		-	0,339	8 0.3404	4	÷		. •	
	-0.0588 0. -0.1012 -0.3018	.0087 -2.1595		09 0.3398		0.3463	0.339	. 70	
C		-2.3761				0.3438			
	0.3871 0.3972 0.	0.3663 3952		-		•3395		3398	
	en de person en en de	0.3868 0.	2695	pacings immunes indoes b - 1 may - life - 1999 (Copping Anh	managan aya a ayagan dicinagadadah ayar dicer sahar saha	0.340	•	0.3386	æ
The second of the second secon	and the second of the second o	0.3873	0.2299		and the second training	-	0.0009		
germana i . de-		0.385	9 0.2863			p'Macrane / - werkings de . 6	-0.00	0.3397 916	
0.130	04 0.0212 -0	0.0147 0.0143	0.0355	.0280 0.5	3470 0.	0586 0	.0374 0.	0474	
ation hada ayan in an in a shaqan ayan in a		gi kang ayan kanasan kang ayan da kanasan kanasan da kanasan kanasan kanasan kanasan kanasan kanasan kanasan k	naghtinisma, promise, 10 a junya, ngaya, ngaya, pagaga paganga, ga yang	and district rape - the prime of Williams - r - r - r	* p 4 Mar		promonent of the second of	e Maar - ✓ No.	

NACAL 292 RUN 62	DATE 16 OCT 80	TIME 05.47	RECOMP. NO. 1	DISK 1 PAGE 20
JOB NO. 11 LDGR	ACCT 31302 CONTRACT	1631 SUR ACC	T 10001	A DATE to the
MOD 56 JET FLAP 1 ALI	PHA WIND ON PHALCHHER EL	UD-34 DEC 640 0 1-5	. 10001 AC	U DATE 12 JUL 80 0.22
	THE DIE KONTEMUEZIEN	NU=34 DEG,C/B & AFT	TOFF	e e manuel
NACAL 292 RUN 62 DATE 16 DCT 80 TIME 05.47 RECOMP. NO. 1 DISK 1 PAGE 2 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 12 JUL 80 0.2 MOD 56 JET FLAP 1 ALPHA WIND ON RUN, CMU=2, FWD=34 DEG, C/8 & AFT OFF DATA POINT 10 0.3452 0.3466 0.3457 0.3478 0.3495 0.3064 -1.1583 0.3491 0.3475 0.3045 -1.9736 0.3545 0.4100 0.3738 0.3738 0.4098 0.4026 0.3935 0.3130 0.3443 0.3435 0.3947 0.2720 -0.0009 0.3888 0.2774 -0.0016 0.4250 0.3020 0.2596 0.2802 0.2396 0.2184 0.3563 0.0948 0.0586 0.0773				
	The same of application of the same of the		The second secon	* team of an a
man with	·			
		0.3466 0.3457	The second secon	So CHINE DOLL - AS IN THE PROPERTY BEAT PROMISE BY THE SERVICE AND THE SERVICE BY
		0.3478 0.3495	5	
	0.2409	0.3491 0.3475	• .	
	- 1 5 R 2			0,3471
	-1.9736		0.3545	
0.4100	0.3738	and a second		
				U•3438
co	0.3935 0.3130	The Port of the State of the State of the Committee of the State of th	0.3443	t v# P May va
Annual Carrier St.				0.3435
	0.3947 0.272	20	-0.00	09
And the Contract of the Contra				0.3477
	0.3888 0.	•2774	TIME 05.47 RECOMP. NO. 1 DISK 1 PAGE 20 631 SUB ACCT 10001 ACQ DATE 12 JUL 80 0.22 634 DEG,C/B & AFT OFF 0.3452 0.3466 0.3457 0.3478 0.3495 0.3513 0.3471 0.3545 0.3570 0.3438 0.3443 0.3435 -0.0009 774 -0.0016	
0.4250 0.3020	0.2596 0.2802 - 0.25	304 * 0 0104		
### DOB NO. 11	6 0.0773			
**************************************	and the second s	The second secon	N. Data Selection of the Company Selection of	e e e e e e e e e e e e e e e e e e e
	the control of the decision of the control of the c	manus a committante mano amo tambo do constante manus e mano e	and the state of t	•

IACAL	292 R U	IN 63	DATE 16	NCT 80 TI	ME 06.00	RECOMP	. NO. 1	nisk	1 P	AGE 22
סיו אחו.	11 .	LDGR ACCT	31302	CONTRACT 163	SUB	ACCT 10001		ACO DATE	12 JUL 80	0.44
MOD 5	7 JET FLA	P 1 ALPHA	WIND ON RUN	• CMU=4 • FWD=34	DEG,C/B	& AFT OFF		^P T _S	^P A 14.228	
				SUM	MARY PAGE			14.40	14.220	
סא די	ALPHA H	O H	CLH THRUST	CDH DELAL	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	РТРСВН СОНР	PTPACH
1	1.5569 1.4000	3.6156 -69.9045	5.6413 134.5257	-2.0712 1.5186	0.8294 2.4418	1853.2312 85.5593	3739.6151 3.8340	2.2640 0.0019		0.9997
2	-2.4719 1.4000	3.6822 -65.3806	4.8722 121.8018	-2 .2326 1 .3129	0.5095 2.4299	1767.0489 85.5785	3380,1028 3,7655	2.2633 0.0019	0.9994 -2.2346	1.0001
, 3	-6.6033 1.4000	3.5230 -57.9324	4.1057 105.3496	-2.5722 1.1068	0.1573 2.4248	1746.5686 85.6902	2899.4163 3.9408	2.2643 0.0019	n.çanç -2.5742	A.9994
349	-10.5541 1.4000	3.7002 -51.3204	3.16 ^c 2 92.7159	-2.5371 0.8760	-0.1750 2.4203	1757.2428 85.5495	2484.6200 3.7459	2.2625 0.0018	0.9996 -2.5390	0.9999
5	1.6059 1.4000	3.5591 -70.0170	5.7386 134.1368	-2.0867 1.5371	0.7968 2.4289	1879.2802 85.5022	3696.3060 3.8922	2.2601 0.0018	0.5592 -2.0886	0. 9998
6	5.6178 1.4000	3.5755 -75.2389	6.5777 150.1151	-1 .7331 1 .7658	1.1265	1919.8936 85.6983	4128.4832 3.8833	2.2635 0.0018	0.5993 -1.7349	1.0003
7	6.7059 1.4000	3.5795 -79.2386	7.3920 166.2376	-1 .4049 1.9882	1.4284 2.4408	1990.1626 85.5444	4554.9261 3.8719	2.2610 0.0018		0.9993
8	13.6278 1.4000	3.5817 -82.5564	8.0189 178.7767	-1 .0476 2 .1683	1.71 <i>7</i> 6 2.4206	2094.9995 85.5442	4919.9458 3.8696	2.2609 0.0017	1.0002 -1.0454	1.0006
9	17.7079 1.4000	3.5243 -86.2999	8.7875 191.5496	-0.5682 2.3949	2.0449 2.4186	2225.1082 85.5480	5243.0245 3.9328	2.2611 0.0017	1.0000 -0.5699	0.9999
10	21.7206 1.4000	3.5718 -89.2201	9.1849 202.5052	-0 .1 25 0 2 .53 2 7	2.1932 2.4226	2348.8134 85.5637	5496.6545 3.8812	2.2612 0.0016	0.9995 -0.1266	1.0000

.

OB NO. 11	RUN 63 LDGR /	ACCT 31302	CON	IT RA CT	1631	2112	ልሶርፕ	10001			7550		PAG	, t
MOD 57	JET FLAP 1 ALE	ים מעדע אוי	1 DIIN CH	W-/ FU	D-24 05	300	MIG G	10001			ACQ DATE	12 301	. 80	0.3
•	JET FLAP 1 ALF	THE WIND OF	KUNTUM	in = 4 * LM	ñ=34 DE	G • C /B	& AFT	OFF	900 to 1 minute	******	MES		r. w	
ATA POINT	1			- Section of the sect				•						
					(0.1779		#### 11 WINES	en e		• • •			
			- Marin pp. s		0.178	5 0,	1770				TO THE SECOND STATE OF THE	1-2- 1 da magas	× • .	•
• • • •			Man to .		0.178									
· · · · · · · · · · · · · · · · · · ·	0.0386 0.0099 0.0187	0.0187 -1.97				84 0,	1736				0.17	35	٠	
	0.1329 0.1981	-2.	7544						0.166		•	6 5g se	•	
350	0.2051 0.2023	0.1972	0.1616		r er omde mag gare				0.1666	·	0	1746		
•		0.1			to the state of the same	**** - *******************************	an tanggar i da ay iy isaniya	and the state of the seconds of	o.	1739		0.175	0	
		er 🗸 🛴 👊 👵	0.1920	0.102	23	MAN BEFORE	· · · · · · · · · · · · · · · · · · ·		• · · · · · · · · · · · · · · · · · · ·		•0009	•		
		•	0.194	46 0,	1420		-	etter et de .	P1995 (8) 2 2 2	· - ,	-0.00		726	
0.1	485 0.0567	0.0349	0.0411	0.04	18 0.	0336	0.15	78 0.	.0461	0.0	0324 0,	0349		

f .

```
JACAL 292 RUN 63 DATE 16 OCT 80 TIME 05.59
                                                RECOMP. NO. 1
                                                               DISK 1 PAGE 14
108 NO. 11
        LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 12 JUL 80 0.41
MOD 57 JET FLAP 1 ALPHA WIND ON RUN. CMU=4.FWD=34 DEG.C/B & AFT OFF
IATA POINT 7
                                        0.1753
                                  0.1763 0.1759
                                0.1772 0.1773
           -0.0134 -0.0116
                                   0.1784 0.1778
         -0.0662
                    -2.0483
                                              0.1672 0.1758
        -0.1417
        0.0249
                    -2.7231
        0.1538
                                                     0.1597
         0.2021
                                                    0.1703
           0.2058 0.2021
                0.1920 0.1612
                                                     0.1761
                                                                    0.1776
                     0.1932 0.0963
                      0.1974 0.1292
    0.1216 0.0000 -0.0159 -0.0098 0.0000 0.0093 0.1597 0.0106 -0.0067 -0.0036
```

	DB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT MOD 57 JET FLAP 1 ALPHA WIND ON RUN, CMU=4, FWD=34 DEG, C/B & AFT	T 10001							
.4	ATA POINT 8								
	0.1763								
	0.1772 0.1776								
	0.1778 0.1789								
	-0.0809 -0.0269 -0.0981 -1.9974 0.1790 0.1775								
	-0.0165 -2.6820 0.1174	0.1672 0.1772							
	0.1981 0.1597 0.2092 0.2065	0.1709 0.1783							
	0.2006 0.1568	0.1781							
	0.1988 0.0938	-0.0009							
	0.2017 0.1366	-0.0016							
	0.0936 -0.0245 -0.0637 -0.0392 -0.0171 -0.0104 0.15								
		The statement of the st							

```
ICAL 292 RUN 63 DATE 16 NCT 80 TIME 06.00 RECOMP. NO. 1 DISK 1 PAGE 20
IB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 12 JUL 80 0.43
MOD 57 JET FLAP 1 ALPHA WIND ON RUN, CMU=4, FWD=34 DEG, C/B & AFT OFF
ITA POINT 10
                                       0.1798
                                0.1790 0.1792
                                  0.1816 0.1804
                                   0.1821 0.1793
          -0.1693 -0.1239 .
                                                  0.1672 0.1786
        -0.1760
                    -1.6465
       -0.2208
                                                     0.1653
                    -2.4041
       -0.0460
        0.0724
                                                     0.1753
                                                            0.1800
                   0.1759
       0.1923
          0.2054 0.2075
                 0.2035 0.1684
                                                                    0.1812
                 0.2034 0.1123
                                                               -0.0016
                       0.2060 0.1356
   0.1010 -0.1527 -0.1631 -0.1288 -0.1018 -0.0895 0.1622 -0.0294 -0.0447 -0.0453
```

ACAL	292 R1	JN 71	DATE 17	OCT 80	TIME 02.00	D RECOMP	. NO. 1	DISK	1 P	AGF 22		
OB NO	• 11	LDGR ACCT	31302	CONTRACT	1631 SUI	B ACCT 10001		ACO DATE	18 AUG 80	19.56		
MOD 64	4 ALPHA V		, C/B=60 DE MU=0	G. FWD=54	DEG, AFT=22	DEG, MEAN=3	B DEG,	-S	P _A			
15.035 14.272 SUMMARY PAGE												
חא ז	ALPHA H PHI	O H THETA	CLH THRUST	C DH D EL A L	CMH WFT	YM • THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH		
1	0.3143 1.2000	15.4070 46.1893	0.5426 109.0726	0.5205 0.2438		-900.1842 1.4576	2071.8922 0.0100	0.9873 0.0697	0.5970 0.4507	1.0009		
2	-3.6074 1.2000	15.4522 42.2943	0.4573 98.6728	0.5027 0.2030		-1078.8100 1.4846	1699.5787	0.9865 0.0691	0.5970 0.4336	1.0012		
ā	-7.5850 1.2000	15.7072 35.5944	0.3260 82.8328	0.4555 0.1407		-1054.9884 0,4862	1251.0831 0.0032	0.9843 0.0214	0.4340	0.9097		
4 0	7 -11.5282 1.3000	15.6690 22.7444	0.1753 68.4210	0.4277 0.0713		-1040 #2005 0 #2615	781.2872 0.0017	0.9850 0.0097	0.5958 0.4180	0.9997		
5	0.2737 1.3000	15.4704 46.1803	0.5120 103.3582	0 •4 91 3 0 • 22 93		-913.4673 0.6158	2065.6323 0.0042	0.9862 0.0287	0.5961 0.4626	0.9446		
6	4.1750 1.2000	15.5009 51.9097	0.6801 126.1150	0.5331 0.3059		-879.8652 1.3210	2469.4576 0.0090	0.9877 0.0642	0.5970 0.4688	1.0007		
7	8.0852 1.3000	15.4877 55.5693	0.8056 142.4151	0.5522 0.3703		-671.1403 0.2227	2769.0098 0.0015	0.9878 0.0121	0.4955 0.5401	0.9493		
8	12.0045 1.2000	15.1683 59.0132	0.5932 165.4494	0.5965 0.4612		-640.9218 0.1915	3093.1245	0.9900 0.0098	0.5866	0.9993		
ò	15.8327 1.2000	15.1777 58.3348	1.0356 173.8568	0.6387 0.4825	· ·	-496.5548 0.4863	3°47.3641 0.0034	0.9936 0.0332	0.5963 0.6055	1.0000		
10	19.7292 1.3000	15.2569 54.3919	1.0388 183.5209	0.7439 0.4863		-290.9317 1.1791	3308.2121 0.0082	0.9950 0.0676	0.5970 0.6763	1.0009		

```
RECOMP. NO. 1
                                                                         DISK 1
                                                                                    PAGE 2
                                          TIME 01.57
NACAL 292
             RUN 71
                         DATE 17 OCT 80
                                CONTRACT 1631 SUB ACCT 10001 ACQ DATE 18 AUG 80 19.43
               LDGR · ACCT 31302
JOB NO. 11
MOD 64 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                       CMU=0
 DATA POINT 1
                                             -0.1777
                                         -0.0036 -0.0468
                                         -0.2024 -0.0187
                                         -0.0871 -0.0569
              10.1650 -0.6029
                                                      -0.0805 ... -0.0623
           -5.0052
                         -0.1196
           -4.9997
                                                              -0.0860
                          -0.0915
          -4.9033
            0.0863
                                                             -0.1617
                                                                         -0.0568
                             0.0471
            0.0559
               2.5932 -1.1927
                                                                -0.0779
                          -1.1892 -0.1032
                                                                              -0.0579
                            -1.1935 -0.1167
                                                                                -0.0557
                            -1.2087 -0.1062
                                                                          -0.0568
      -0.0140 -0.0274 -0.0036 -0.0067 -0.6108 -0.0170 0.0043 -0.0366 -0.0335 0.0049
```

```
RUN 71 DATE 17 OCT 80 TIME 01.59 KECOMP. NO. 1
                                                                        DISK 1 PAGF 14
 JACAL 292
                                                SUB ACCT 10001 ACQ DATE 18 AUG 80 19.53
                                CONTRACT 1631
               LDGR ACCT 31302
 OB NO. 11
MOD 64 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=72 DEG, MEAN=38 DEG,
                      CMU=0
 DATA POINT 7
                                             -0.1859
                                         -0.0058 -0.0523
                                         -0.1873 -0.0150
                                          -0.0901 -0.0597
              10.0911 -0.3039
                                                            -0.0561 -0.0603
                         -0.1110
            -5.1358
           -5.1370
                                                             -0.0683
                         -0.0915
          -4.9563
            0.1139
                                                             -0,1891
                                                                           -0.0600
                            0.0558
            0.0969
               2.6211 -1.1853
                                                                -0.0816
                          -1.1826 -0.1013
                                                                              -0.0573
                                                                    -0.0542
                             -1.1728 -0.1005
                                                                               -0.0546
                                                                          -0.0565
                               -1.2064 -0.1004
       -0.6598 -0.0707 -0.0414 -0.0030 -0.3130 -0.0390 -0.0006 -0.0433 -0.0384 0.0000
```

. .

				/ 1 -
RUN 71	DATE 17 OCT 80	TIME 01.59 R	RECOMP. NO. 1	DISK 1 PAGE 16
2001	ACCI SISUZ CUNTRACT	1631 SUB ACCT	10001	N. D. A. T
ALPHA WIND ON	N RUN, C/B=60 DEG, FWD=54 CMU=0	DEG, AFT=22 DEG, M	EAN=38_DEG +	
8	The second commence of			
··		-0.1893	**************************************	• •
		-0.0040 -0.0491		And the second of the second o
	to the second of	-0.1910 -0.0175	en e	
-5.1583	-0.3191 -0.0921	-0.0071		
~4. 9856	-0.0805	The state of the s		=0. 0565
	•	The state of an angle of the state of the st		
			-0.1885	-0.0582
	-1.1806 -0.0984		-0.0862	e recommendada de la composição de la co
*** · *** · *** · ***		the design design on the second secon		-0.0620
			-0.064	
	-1.2103 -0.	.0890	in the second of	-0.0462
159 -0.1098	-0.0811 -0.0067 -0.28	74 -0.0573 -0.013		
	10.0321 -5.1583 -5.2163 -4.9856 0.1009 0.1091 2.6310	LDGR ACCT 31302 CONTRACT ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 CMU=0 8 10.6321 -0.3191 -5.1583 -0.0921 -5.2163 -4.9856 -0.0805 0.1009 0.1091 0.0633 2.6310 -1.1809 -1.1712 -0.0984 -1.1712 -0.0984	LDGR ACCT 31302 CONTRACT 1631 SUB ACCT ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, M CMU=0 8 -0.1893 -0.0040 -0.0491 -0.1910 -0.0175 -5.1583 -0.0921 -0.0871 -0.0528 -5.2163 -4.9856 -0.0805 0.1009 0.1091 0.0633 2.6310 -1.1809 -1.1712 -0.0918 -1.2103 -0.0890	LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACCT ALPHA WIND DN RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG, CMU=0 8 -0.1893 -0.0040 -0.0491 -0.1910 -0.0175 -5.1583 -0.0921 -0.0871 -0.3528 -5.2163 -4.9856 -0.0805 -0.0750 0.1009 0.1009 0.1091 0.0633 2.6310 -1.1809 -1.1806 -0.0984 -0.0862 -1.1712 -0.0918 -0.0642

```
20
MACAL 292 RUN 71 DATE 17 OCT 80 TIME 02.00 RECOMP. NO. 1 DISK 1 PAGE 20
108 NO. 11
           LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACC DATE 18 AUG 80 19.55
MOD 64 ALPHA WIND DN RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
IATA POINT 10
                                       -0.1290
                                   -0.0046 -0.0620
                           -0.1067 -0.0212
          10.0445 -0.3246
                                  -0.0711 -0.0630
       -5.1162
                  -0.0805
                                -0.0732 -0.0660
       -5.1614
       -5.0241
                    -0.0695
        0.0911
                                                    -0.0537
         0.1146
                        0.0595
           2.6375 -1.1725
                                                    -0.0469
                     -1.1713 -0.0677
                                                       -0.0605
                      -1.1667 -0.0631
                        -1.2026 -0.0634
                                                               -0.0648
   -0.0701 -0.0598 -0.0646 -0.0103 -0.2300 -0.0793 0.0093 -0.1452 -0.1257 0.0099
```

	IACA	L :	292	RUN	72	DATE	17	08 TO0	TIME	01.17	RECOM	P. NO. 1	DISK	1	PAGE 22
	ОВ	NO.	11	L	DGR AC	CT 31302		CONTRACT	1631	SUB	ACCT 1000	l	ACO DATE	18 AUG 8	30 20.19
ı	MOD	65	ALPHA	NIW /	D ON R	CMU=1	60 DE	G, FWD=54	DEG,	AFT≃22	DEG, MEAN=	38 DEG,	P _T S	P _Á	
									S UMMA	RY PAGE			15.035	14.272	
	TN	חי	ALPHA PHI	Н	O H THEI	CI TA THE	_H RUST	C DH D EL A L		CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBI CDHR	н ртрасн
	1		1.324		15.090 88.365		9853 2786	0.0851 1.3413		0.4849 5.2667	1076.0944 121.0220	10984.5314 0.8518	1.3587 0.6780		
.19	2	•	-2.687 1.300		15.038 88.587		5220 3221	-0.0646 1.1723		0.4063 5.2680	1064.1857 120.4734	9653.6574 0.8509	1.3597 0.6796	1.2547 -0.7443	
	3	;	-6.81°		14.895 83.743		1673 7357	-0.2376 0.9645		0.3173 5.3058	1256.8209 122.2079	8285.1338 0.8715	1.3622 0.6883	1.3642 -0.9259	
	4	359	1.300		14.90 <i>6</i> 77.911		7051 7034	-0.3651 0.7587		0.2179 5.2878	1451.8909 121.7589	6 -21.2253 0.8676		1.3634 ∘1.0508	
	5)	1.32 <i>0</i> 1.300		14.843 89.273		9506	0.0324 1.3297		0.5035 5.2954	1182.2495 121.8928	10886.2696 0.8723		1,3628 -0.6560	
	6	, ,	5.284 1.300		14.818 85.842		2698 340 1	0.2376 1.4787		0.55 <i>2</i> 9 5.2331	1092.5529 120.8983	11934.6377 0.8666		1.3633 -0.4434	
	7	7	9.220 1.300		15.010 82.883		4301 4785	0.4282 1.5689		0.5797 5.2307	1197.2591 120.6730	12554.1102 0.8539			
	8	3	13.124		14.904 80.708		5404 5676	0 •5 95 5 1 •68 02		0.6394 5.2261	1272.0477 120.6447	13114.8523 0.8598	1.3651 0.6782	1.3644 -0.0827	
	Ġ)	16.984		15.070 78.813		6346 530 5	0.7188 1.6939		0.6543 5.1630	1528.8095 118.7703	13287.9113 0.8371		1.3599 0.0523	
	10)	20.914 1.300		14.907 76.350		7416 3793	0.9086 1.7671		0.6970 5.1588	1959.6801 118.7468	13279.9232		1.3639 0.2390	

```
0
```

```
MCAL 292
         RUN 72 DATE 17 OCT 80
                                         TIME 01.13
                                                       RECOMP. NO. 1
                                                                        DISK 1
                                                                                    PAGE 2
OB NO. 11
                               CONTRACT 1631 SUB ACCT 10001
              LDGR ACCT 31302
                                                                  ACO DATE 18 AUG 80 20.05
MOD 65 ALPHA WIND DN RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                     CMU=1
ATA POINT 1
                                            -0.8933
                                         0.0012
                                               -0.6180
                                       -0.9403
                                                -0.3183
            -0.3264 -0.7392
                                       -0.8216 -0.6022
          -0.4786
                       -2.2939
                                                          -0.7112 -0.0371
         -0.4652
        -0.1016
                         -2.2495
                                                            -1.2788
          0.0870
                           -0.0115
          0.1164
                                                            -0.9104
                                                                          -0.0115
             0.1073 0.0982
                         0.0971 -0.4767
                                                               -0.2011
                                                                              0.0038
                            0.1093 -0.3157
                                                                   -0.0602
                                                                               0.0109
                              0.0881 -0.1339
                                                                        -0.0084
    -0.0925 -0.3069 -0.3379 -0.0225 -0.6540 -0.3635 -0.0127 -0.3489 -0.3544 -0.0207
```

* .

```
RUN 72 DATE 17 OCT 80 TIME 01.16 RECOMP. NO. 1
VACAL 292
                                                                    DISK 1
                                                                                PAGE 14
108 NO. 11
              LDGR ACCT 31302
                              CONTRACT 1631 SUB ACCT 10001 ACQ DATE 18 AUG 80 20.15
      ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG.
MOD 65
                    CMU=1
ATA POINT 7
                                          -0.4622
                                      0.0007 -0.4058
                               -0.7829 -0.1288
            -0.4810 -0.7246
                                       -0.8080 -0.4416
         -0.5943
                      -2.0954
                                                     -0.8781 -0.3599
         -0.8525
        -0.3294
                       -2.0503
                                                         -1.0760
          0.0032
          0.1170
                          0.0247
                                                        -0.8275
                                                                      -0.1259
            0.1231 0.1150
                        0.1112 -0.4565
                                                                         -0.0585
                          0.1203 -0.3141
                         0.1059 -0.1124
                                                                     -0.0132
    -0.2350 -0.4853 -0.4116 -0.0152 -0.5273 -0.4098 -0.0085 -0.3854 -0.3732 -0.0048
```

ACAL 292 RUN 72	DATE 17 OCT 80	TIME 01.16	RECOMP. NO. 1	DISK 1 PAGE 10	5
OB NO. 11 LDGR A	CCT 31302 CONTRACT	1631 SUB ACC	T 10001	ACQ DATE 18 AUG 80 20.10	>
MOD 65 ALPHA WIND ON	RUN, C/B=60 DEG, FWD=54 CMU=1	DEG: AFT=22 DEG	, MEAN=38 DEG	namental and the second second	
MATA POINT 8	and the second s	. .	to the second se	• • • • • •	
		-0.5642			
activisation and additional to the second and the s	e de la companya de l	-0.0036 -0.22			-
	and the second of the second	-0.8087 -0.079	94	<u></u>	
-0.6570	-0.7959 -1.9505	-0.7577 -0.31	20 	0.5426	
	-1.9657		-1.0096		
-0.0625 0.1076 0.1215	0.0526		-0.8976	-0.1425	-
Supering the property of the second s	0.1160 -0.4312	· case provides an above the comment of the	-0.156	.5 -0.0841	
and the second s	0.1183 -0.27	66	-	0.0411	•
	0.1037 -0	.0754		-0.0496 -0.0350	٠
-0.3739 -0.5967	-0.5425 -0.0146 -0.5	188 -0.4329 -0	,0097 -0. 3879 - 0	-0.0036	
····	and the second s	· · · · · · · · · · · · · · · · · · ·		namen man (n. 1918). Sie der St.	
<u> </u>	and the second s	managan kan dan dan dan dan dan dan dan dan dan d		<u></u>	

```
ACAL 292 RUN 72 DATE 17 DCT 80 TIME 01.17 RECOMP. NO. 1 DISK 1 PAGE 20
DB NO. 11
       LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 18 AUG 80 20.18
MOD 65 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                   CMU=1
ATA POINT 10
                                       -0.4610
                                    0.0049 -0.1374
                              -0.5271 -0.0709
           -0.7088 -0.9329
                                   -0.6323 -0.1671
        -0.7124
                   -1.0583
                                                -0.7599
       -0.4189
                     -1.2660
                                                      -0.9901
        -0.1398
        0.0955
                        0.1133
                                                     -0.7746
                                                                  -0.1204
           0.1283 0.1283
                      0.1294 -0.2851
                                                        -0.1064
                                                                     -0.0774
                       0.1325 -0.1431
                                                            -0.0010
                           0.1212 -0.0173
                                                                 -0.0075
   -0.3544 -0.6564 -0.6528 -0.0079 -0.4963 -0.4774 -0.0048 -0.3958 -0.3848 -0.0066
```

OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 18 AUG 80 21.55

MOD 65 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=72 DEG, MEAN=38 DEG, PTS 15.035 14.272

SUMMARY PAGE

T NO	ALPHA H PH]	O H Theta	CLH THRUST	CDH DELAL	CMH WFT	ҮМ ТНТН	RL CMUTH	PTPFCH CDR	PTPCBH CDI:R	PTPACH
1	1.4343 1.2000	15.2494 -87.1395	3.1997 459.5272	-0.1598 1.4098	0.5229 6.0483	2300.5792 129.3965	11678.0905 0.9710	1.3643 0.7726	1.3641 -0.9325	1.3679
2	-2.7470 1.3000	15.4828 -82.7317	2.6906 395.3494	-0.3431 1.1811	0.4171 6.0015	2299.9822 138.5547	10172.8956 0.9505	1.3634 0.7623	1.3658 -1.1055	1.3666
3	-6.8144 1.3000	15.2312 -78.4056	2.2325 328.1317	-0.4580 0.9803	0.3246 5.9676	2272.8139 137.6285	8876.0039 0.9535	1.3623 0.7617	1.3659 -1.21cp	1.3546
4	2 ~10.8525 1.3000	15.3262 -71.6896	1.7426 264.8353	-0.5766 0.7671	0.2118 5.8916	2468.9621 125.9062	7316.8543 0.9419	1.3625 0.7535	1.3645 -1.2302	1.3633
5	1.2541 1.3000	15.2448 -87.5138	3•1462 454•9176	-0.1366 1.3895	0.5266 5.9228	2137.2362 136.8710	11671.5432 0.9474	1.3658	1.3642 -0.8944	1.3616
6	5.4044 1.3000	14.9807 89.2888	3.6326 512.3375	0.0387 1.6106	0.6124 5.9078	2125.7322 136.7005	12904.4527 0.9693	1.3637 0.7660	1.3634	1.3655
7	9.3217 1.3000	15.1183 85.8473	3.8542 549.9955	0.2798 1.7311	0.6175 5.8912	2161.2750 176.6246	13652.1613 0.9599	1.3629 0.7614	1.3651 -0.4815	1.3659
8	13.2325 1.3000	14.9695 83.0047	4.0975 581.7784	0.5027 1.8619	0.6378 5.8911	2080.5959 127.0557	14280.2302 0.9725	1.3639 0.7660	1.3651	1+3695
9	17.1608 1.3000	14.9445 80.7830	4•1252 587•5665	0 • 66 54 1 •8 97 0	0.6535 5.8878	2338.5875 136.6019	14549.5787 0.9709	1.3655 0.7658	1.3643 -0.0964	1.3637
10	21.0604 1.3000	15.1109 78.6074	4.1974 609.1107	0.8457 1.9539	0.6739 5.9158	2671.9286 137.9187	14625.0728 0.9695	1.3681 0.7667	1.3660 0.0790	1.3664

NACAL 292	RUN 73	DATE 17	OCT 80	TIME	01.27	RECOMP.	NO. 1	DISK	1	PAGE 2
JOB NO. 11	LDGR	ACCT 31302	CONTRACT	1631	SUB A	CCT 10001	•	ACO DATE	18 AUG	80 21.24
MOD 65	ALPHA WIND ON	RUN, C/B=60 D CMU=1	G, FWD=54	DEG, A	FT≖22 DE	G, MEAN=38	DEG		· • •	
ATA POINT	1		d de transcription and a reconstruction					•		
				•	0.9936					
Application in the second of the second second				-0.001	3 -0.6	109		MATERIAL PROPERTY OF A 2-	Armeten san berten	# *** *** *** *** *** *** *** *** *** *
kanna suu aa aa				-1.114	60.3	764				
		-0.7938 -2.3479		-0.83	81 -0.6	341			12	
	-0.5330 -0.1224 0.0932	-2.215	7				-2.2273	VA 0 807	16	4.
365	0.1231	0.1090)42	- Pere a - employe	······································	TERRI - GAME MEMBER - SECURE -	1.4719	0	•0120	
The same of the sa	ed no.	0.1121	-0.4986	· · · · · · · · · · · · · · · · · · ·		to and the state of the state o	-0.20		- -0.006	1
the section is a supplemental of the section of the			61 -0,336			•		-0.0666		
			0.0888 -0.	.1582		n die Book en war dan de de	e de la desta de la compansión de la desta de la compansión de la compansi	-0.0	0.01 165	129
-0.	1498 -0.3704	-0.3411 0.0	055 -0.70	091 -0	•3752 -0	0.0067 -0	.3813 -	0.3667 0	0185	
form miner py	•	e e same e se se se se se se se se se	tive of the federal course of the second of the second of		manage v - co.			14 - 188 de leidensgemagenstering – is – is – is – jag – is	2-80 · - VIZIO ·S.	· •
~ ~		Andrew Control of the Andrew Andrew	t are obtained as a second			rener renerry reserve				

```
8
```

```
NACAL 292 RUN 73 DATE 17 NCT 80 TIME 01.29
                                                       RECOMP. NO. 1
                                                                        DISK 1
                                                                                    PAGE 14
JOB NO. 11
               LDGR ACCT 31302
                                CONTRACT 1631 SUB ACCT 10001
                                                                 ACO DATE 18 AUG 80 21.50
MOD 65 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG.
                      CMU=1
DATA POINT 7
                                            -0.6055
                                        -0.0012
                                                 -0.4273
                                        -1.0606 -0.3378
             -0.5824 -0.5897
                                         -0.9048 -0.6097
          -0.6372
                        -2.1944
                                                        -1.0807....-0.6132
         -0.9936
         -0.3905
                        -2.0981
                                                            -1.7801
         -0.0354
           0.1104
                            0.0068
                                                            -1.0734
                                                                        -0.0361
             0.1240 0.1160
                         0.1192 -0.5153
                                                               -0.1945
                                                                            -0.0560
                            0.1206 -0.3119
                                                                   -0.0408
                                                                               0.0386
                              0.0973 -0.1077
                                                                        -0.0009
     -0.3046 -0.5166 -0.4764 0.0161 -0.4812 -0.4447 0.0012 -0.4106 -0.4112 0.0148
```

```
IACAL 292
          RUN 73
                    DATE 17 OCT 80 TIME 01.30 RECOMP. NO. 1
                                                                          DISK 1
                                                                                       PAGE 16
                                 CONTRACT 1631 SUB ACCT 10001 ACO DATE 18 AUG 80 21.51
10B NO. 11
               LDGR ACCT 31302
        ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG.
MOD 65
                      CMU=1
IATA POINT 8
                                              -0.5052
                                           0.0007 -0.3987
                                          -0.8733 -0.1897
             -0.7188 -0.6482
                                           -0.8143 -0.2622
           -0.6817
                         -1.9739
                                                               -1.1490
                                                                           -0.2725
          -1.1203
         -0.4752
                           -1.9312
                                                               -1.8581
          -0.0926
                             0.0402
            0.1013
                                                              -1.1989
                                                                            -0.1757
              0.1206 0.1211
                           0.1217 -0.4791
                                                                  -0.1754
                                                                                -0.0828
                             0.1206 -0.2695
                                                                      -0.0245
                                                                                   0.0119
                              0.1016 -0.0768
                                                                            -0.0195
     -0.4057 -0.6159 -0.6141 0.0099 -0.4648 -0.4581 -0.0030 -0.4337 -0.4106 0.0247
```

```
RECOMP. NO. 1
                                                                                             PAGE 20
                                              TIME 01.31
                                                                                DISK 1
             RUN 73
                           DATE 17 NCT 80
VACAL 292
                                                                           ACO DATE 18 AUG 80 21.54
                LDGR ACCT 31302
                                   CONTRACT 1631
                                                     SUB ACET 10001
JOB NO. 11
         ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG.
                        CMU=1
DATA POINT 10
                                                  -0.6372
                                             -0.0003
                                                      -0.3744
                                             -0.6287
                                                      -0.1292
              -0.7627 -0.7651
                                              -0.6756 -0.2178
                                                                     -1.0484 ____-0.5977
            -0.7006
                           -1.3317
           -0.7134
                                                                    -1.4597
          -0.5647
                             -1.1130
           -0.2074
                                                                   -1.0113
                                0.0873
                                                                                   -0.1249
             0.0710
               0.1140 0.1239
                             0.1240 -0.3345
                                                                                      -0.1161
                                                                            0.0006
                                0.1192 -0.1908
                                                                                        -0.0430
                                   0.1101 -0.0218
                                                                                 -0.0122
              -0.7304 -0.7213 0.0161 -0.4343 -0.5068 0.0179 -0.4703 -0.4191 0.0266
```

			•											
ICAL	. 292	RUN	74	DATE	17 nc	7 80	TIME	01.51	. RE	спир.	NO. 1	DISK	1	PAGE 22
)B M	0. 11	LD	GR ACCT	31302	COI	NTRACT	1631	SUE	ACCT 1	0001		ACO DATE	18 AUG 8	0 23.22
40D (56 ALPH/	dulm <i>t</i>	ON RUN	, C/B=60 MU=0	DEG,	FWD=54	DEG,	AFT=22	DEG• ME	8E=N4	DEG •	P _T S 15.035	P _A	
							SUMMA	RY PAGE				13.003	2,0-0-	
. NO	ALPHA PHI	Н	ก H THETA	CLH THRU		C DH D EL A L	-	CMH WFT	YI TH		RL CMIJT	PTPFCH H CDR	PTPCBH CDHR	PTPACH
1	0.234		5•1790 6•7149	0.52 103.12		0.4948 0.2357		0.1394 0.4378	-922.81 2.44		1905.281 0.017			
2	-3.888 1.300		5.5390 1.4230	0.40 90.39		0.4633 0.1802		0.0625 0.3199	-1005.79 1.53		1567.369 010		-	
9)	-7.885 1.300		5.4483 3.2730	0.29 77.15		0.4435 0.1243		0.0365 0.3515	-1028.93 1.75		0.012			
4	% -11.752 1.300	20 1	5.2051 1.7070	0.17 66.52		0.4289 0.0672		0.1410 0.2465	-944.77 1.07		572.743 0.007			
5	0.011 1.200		5.0303 5.1952	0.50 100.59		0.5010 0.2256		0.1539 0.5898	-953.23 2.90		905.015 0.020			
6	3.90 <i>0</i> 1.300		4.9527 9.5041	0.62 115.23		0.5316 0.2822		0.2238 0.1579	-780.28 0.63		285.245 0.004			
7	7.823 1.300		4,9333 3,6173	0.73 128.98		0 •5 442 0 •33 80		0.3041 0.2036	-703.01 0.91		617.786 0.006		0.5944 0.5179	
. 8	11.707 1.300		4.9344 5.9638	0.88 149.14	-	0.5783 0.4108		0.3757 0.5121	-692.35 2.33		965.782 0.016	• •	0.5955 0.5122	0.9663
Ö	15.497 1.300		4.7383 7.8755	0.579 160.429		0.6148 0.4548		0.4195 0.2605	-490.81 1.21		243.778° 0.008°		0.5938 0.5810	
10	19.333 1.300		5.0454 5.6937	0.540 161.898		0 .6442 0 .4383		0.4212 0.1662	-363.12 0.74		122.3139		0.9936 0.6228	0.9687

•

....

•

NACAL 292 RUN 74 JOB NO. 11 LDGR, MOD 66 ALPHA WIND ON QATA POINT 1	DATE 17 OCT 80 ACCT 31302 CONTRACT	TIME 01.48 RECOMP. NO. 1 DISK 1 PAGE 1631 SUB ACCT 10001 ACO DATE 18 AUG 80 23.0 DEG, AFT=22 DEG, MEAN=38 DEG,
		0.5855
		0.7581 0.7089 0.5633 0.7435 0.6638 0.6988
0.8850 0.8850 0.8106 0.8159	0.6746 0.8231	0.7055 . 0.6863 0.6548 0.5632 0.7041
·	0.8343 0.6506	0.6849
The same of the sa	0.8350 0.641	7 0.6812
	0.8180 0.6	0.6937
0.7754 0.7470	0.7600 0.7767 0.013	6 0.7266 0.7606 0.7457 0.7352 0.7563
		AND THE PARTY OF T

NACAL 292	RUN 74	DATE 17 OCT 80	TIME 01	50 RFC	DMP. NO. 1	DISK 1 PAGE 1	L 4
JOB NO. 11	LDGR	ACCT 31302 CONTRACT	1631	SUB ACCT 100	001	ACO DATE 18 AUG 80 23.1	. 9
MOD 66 AL	PHA WIND ON	RUN, C/B=60 DEG, FWD=54 CMU=0	SEG, AFT	22 DEG # MEAN	1=38 DEG:	man na manana manan	
TAIO ATAC	7				•		
			0.5	696			
		• • • • • • • • • • • • • • • • • • • •	0.7418	0.6885	· Free or pursual states a special state of the state of		
** **********************************		- · · · ·	0.5560	0.7256	# rm		
		0.5235 0.6300	0.6520	0.6752	0.6888	0.6818	
	0.8169	0.6727			o.6770		
and the second of the second of	0.8539 0.8327 0.8241	0.8144		No and Artifact Mark and the control of the control	0.5434	0.6798	
371	•	0.8270 0.6395				7 0•6792	
THE RESIDENCE TO BE FORE		0.8360 0.63	319	en e en		0.6757	
·		0.8097 0	.6381		TREE II (a	0.6897. 0.6814	
0.70	49 0.6900	0.7055 0.7488 0.2	339 0,69	50 0.7290	0.6993 0	.6950 0.7290 ·	
e de comm ercia de la composição de la					***************************************	The fact of party of Cope or delate to the cope	
		The control of the co	· · · · · · · · · · · · · · · · · · ·	Table 1 - Management to the same as a color of a color of a color	Marie - 1866 e le 1866 e 6 de 1867 e 6		
						•	

.

```
NACAL 292
          RUN 74 DATE 17 OCT 80 TIME 01.50 RECOMP. NO. 1
                                                               DISK 1
                                                                      PAGE 16
        LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 18 AUG 80 23.20
JOB NO. 11
     ALPHA WIND DN &UN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                   CMU=0
DATA POINT 8
                                        0.5684
                                    0.7446
                                           0.6857
                             0.5560 0.7302
            0.6189 0.5495
                                     0.6573 0.6826
         0.5792
                0.6288
                                                 0.7179 0.6811
        0.75
                     0.6529
                                                      0.6659
         0 - 6445
                       0.8144
                                                    0.5508
                                                                  0.6877
            0.8384 0.8298
                      0.8293 0.6471
                                                       0.6560
                                                                    9.6900
                0.8422 0.6440
                                                                      0.6873
                          0.8001 0.6412
                                                                0.6823
     0.6263 0.6306 0.6461 0.7594 0.2661 0.6770 0.7327 0.6968
                                                           0.7030 0.7352
```

								•	20
NACAL 292	RUN 74	DATE 17 OC	T 80 TIME	01.51	RECOMP.	NO. 1	DISK	. 1	PAGE 20
JOB NO. 11	LDGR · A	ACCT 31302 CO	NTRACT 1631	SUB AC	CT 10001		ACO DAT	E 18 AUG	80 23.22
MOD 66 ALPH	NO DNIW AF	RUN, C/B=60 DEG, CMU=0	FWD=54 DEG; A	FT=22 DEG	, MEAN=38	DEG ,	· • · · · · · · • · • · •	w	
DATA POINT 10		• •			s perfection of	•			
				0.6622					
The state of the s		· Para Tana And Andrews	0.744	0.68	00	women's ching	e de la companya de l	• • •	
#*************************************			0.660	4 0.72	93				
		0.5508 0.6399	0.67	23 0.68	23	0 • 690	00 0 • 6	687	
ω 0 ,		0.6579				0.6845			
	0.8519	0.8305	e e neu mane in action in			0.6863	•	0.6781	
	·	0.8374	0.6845	······································	*- 	0.67	94	0.680	3
		0,8497	0.6843	<u>م</u> ن با المحادث	er i de et la es	m t transpa	0.6743		en u
Part Million Constitution of Part 1 and 1	····	0.81	57 0.6832	* * * * * * * * * * * * * * * * * * *	na en	Mercana or him.	0.6	. 0 •68 5727	391
0.6913	0.6752	0.6554 0.7655	0.3131 0.	.6560 0.	7451 0.	6257	0.6201 (. 7389	
Anne Anne Anne Anne Anne Anne Anne Anne	·		mercen de river : ben'n de representation des respectations () y super e		n de de descriptor de la compansión de l	- 4			

DISK 1 PAGE 24 1CAL 292 RUN 75 DATE 17 OCT 80 TIME 02.11 RECOMP. NO. 1 ACO DATE 18 AUG 80 23.49 18 NO. 11 LDGR ACCT 31302 CONTRACT 1631 **SUB ACCT 10001** 100 67 ALPHA WIND ON RUN. C/B=60 DEG. FWD=54 DEG. AFT=22 DEG. MEAN=38 DEG. CMU=1 15.035 14.272 SUMMARY PAGE NO ALPHA H B H CLH CUH CMH YM RL **PTPCBH** PTPACH PTPFCH PHI THETA THRUST DELAL WFT HTHT: CMUTH CDR CUHR 1 1.3308 15.0142 2.9131 0.0925 0.4812 937.5246 10645.2598 1.3701 1.3632 1.3570 1.3000 88.1798 411.9595 5.2832 120.7824 0.6769 -0.5843 1.3109 0.8545 2 -2.7646 15.0304 2.5295 -0.06110.4015 921.4967 9337.7991 1.3679 1.3635 1.3540 1.2000 -88.6149358.0313 1.1326 5.2870 120.7063 0.8530 0.6773 -0.7385 3 -6.8225 15.2669 2.1120 -0.18769.3171 918,4596 8183.5757 1.3663 1.3646 1.3575 0.6769 -0.8645 1.3000 -84.9240 304.7491 0.9433 5.3250 121.7675 0.8472 -10.8314 15,0889 1.7458 -0.3020 0.2127 1072.5971 6863,0403 1.3626 1.3590 1.3626 1.2000 -80.1853 0.7787 251.6763 5.2852 120.6325 0.8492 0.6759 -0.97795 -10.8422 15.1115 1.7316 -0.3002 0.2113 1082.3363 6766.8612 1.3649 1.3638 1.3504 1.3000 -RO.1644 250.0145 0.7726 5.3074 121.0697 0.8510 0.6787 -0.9789 14.9431 2.8994 1.3598 6 1.2461 0.0716 0.4960 962.9676 10622.3897 1.3680 1.3640 1.3000 88.5843 408.0086 1.3031 5.3295 122.0610 0.8676 0.6857 -0.61417 5,2693 3.20F1 0.2579 14.8632 0.5477 1065.1646 11599.3503 1.3697 1.3633 **\$3558** 1.3000 85.403ª 450.3375 1 4542 5.3136 121,6078 0.8691 0.6857 -0.4278 8 9.2767 14,9931 3.4426 0.4448 0.5880 977.7011 12552.7716 1.3648 1.3626 1.3563 1.3000 82.6369 489 4531 1.5763 5.2958 120.9946 0.8572 0.6803 -0.2355 9 13.1261 15.0042 3.5804 0.5885 0.6333 1221.0935 13049.9527 1.3661 1.3621 1.3578 1.6534 5.3000 121.2163 0.6806 -0.0921 1.3000 80.6658 512.5228 0.8581 0.7367 1.3688 1.3638 1.3603 .0 17.0203 14.9825 3.7003 0.6690 1500.7682 13451.1850

5.2958

121.4325

0.8609

0.6806

0.0560

1.3000

78.7396

532.1557

ACAL 292 RUN 75 DATE 17 NCT 80 TIME 02.11 RECOMP. NO. 1 DISK 1 PAGE 25

OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 18 AUG 80 23.49

MOD 67 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,.

CMU=1

SUMMARY PAGE

T NO	ALPHA H PHI	O H Theta	CLH THRUST	C DH DELAL	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	20.7956 1.3000	15.2217 77.0936	3.5863 527.2288	0.8217 1.6866	0.6770 5.2487	1909.7293 119.8825	13174.5570 0.8365	1.3643	1.3623	1.3551

٧.

and the state of t

A Proposition of the Contract of the Contract

the second of th

the second of th

A	NACAL 292 JOB NO. 11 MOD 67 ALE	a Don't	DATE 17 00 ACCT 31302 CO RUN, C/B=60 DEG, CMU=1	NIRACT 1	631	SUB ACCT	10001	F *SOLDER	DISK 1 PAGE 2 ACO DATE 18 AUG 80 23-31
	DAŢA POINT 1	•	•	**	- 0.	. 1637	· · · · · · · -		
		0.4473	-0.0573		0.7642 0.2532	0.0094	e a c		The contraction of the contracti
	0	N 20//	-1.5008 -1.4002		-0.0675 	0.2003	-0.	-0 • 1030 -5397 -774	0•4040 0•7608
			0.8624 0 0.8677	0.4420				0.5747	0.7532
	0.6129	0.4212	0.85 0.4287 0.7730	0.0068		396 0.76	74 0.423	31 0.	0.7713 0.7507 3989 0.7494
				The second second	e more sema	**		AMAZON ISAMANINA ISA WANINA MANANINA MANANINA MANANINA MANANINA MANANINA MANANINA MANANINA MANANINA MANANINA M	•

```
PAGE 16
                   DATE 17 OCT 80 TIME 02.10 RECOMP. NO. 1
                                                                      DISK 1
         RUN 75
NACAL 292
                                               SUB ACCT 10001 ACD DATE 18 AUG 80 23.45
                               CONTRACT 1631
              LDGR. ACCT 31302
JOB NO. 11
MOD 67 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                     CMU=1
DATA POINT 8
                                             0.0872
                                        0.7732 0.4198
                                        -0.0620 0.5867
                                        -0.0626 0.3440
              0.2388 -0.0030
                                                        -0.0798 ____0.1862
                        -1.4130
            0.1749
          -0.1366
                                                            -0.2469
                         -1,3966
          0.4057
           0.7560
                                                                         0.5774
                                                            -0.0457
                            0.7947
            0.8785
              0.8866 0.8776
                                                               0.5848
                          0.8748 0.2951
                                                                             0.6881
                                                                    0.7196
                           0.8813
                                    0.4731
                                                                         0.7386
                              0.8623 0.6615
              0.2661 0.3437 0.7699 0.1687 0.3424 0.7674 0.3883 0.3759 0.7581
       0.4069
```

		CCT 31302 CONTRA RUN, C/B=60 DEG, FWD CMU=1				O DATE 18 AUG 80 23.4
ATA POINT 9		and the contract the second contract to	n v ne		B B-FLoRmaniana P - o-mark no dir skamanian	••
			0.2	2350		
And the second s	,	and the second s	0.7766	0.3103	19 to defended the day of the property of the second desired and the second	And Andrews (Ass. 19 and Ass.
			-0.1181	0.5430		
	172	-0.0664 -1.0770	0.0181			0.3735
0.316 0.71	4	-1.1599			-0.3647	
0.8	0.8861	0.8177 0.8843			-0.1116	0.5936
ORIGINAL OF POOR (0.8852 0.36	34		0.6079	0.6909
QT,		0.8861 0	.5112	i di di di dan 18. Indi da dan 11. Indi da da 19. Indi indi da 19. Indi indi indi indi indi indi indi indi	0.7	335
PAGE IS QUALITY		0.8748	0.6771			0.7083 0.7368
0.2965	0.1830	0.2097 0.7755	0.1774 0.32	32 0.7780	0.3586 0.36	60 0.7631

```
NACAL 292 RUN 75
                          DATE 17 NCT 80
                                          TIME 02.11 RECOMP. NO. 1
JOB NO. 11
                                                                             DISK 1
           LDGR ACCT 31302
                                                                                         PAGE 22
                                  CONTRACT 1631
                                                   SUB ACCT 10001
MOD 67 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                                                                          ACD DATE 18 AUG 80 23.48
DATA POINT 11
                                                0.4285
                                            0.7884
                                                     0.6254
                                          -0.0106
                                                    0.7247
             0.0477 -0.1854
                                            0.2345
            0.0595
                                                    0.4830
                         -0.5202
           0.0837
                                                                   0.0322
                                                                             0.3253
          0.2518
                           ~0.6452
          0.6066
                                                                -0.1738
           0.8534
                             0.8741
              0.8943 0.8953
                                                               -0.1262
                                                                               0.6062
                           0-8965 0-4296
                                                                   0.6438
                                                                                 0.6603
                             0.8948 0.5870
                                                                        0.7641
                                0.8911 0.7321
                                                                                   0.7236
                                                                             0.7543
     0.2754
             0.0899
                     0.1005 0.7941 0.2022
                                              0.2742
                                                      0.7873
                                                              0.3604
                                                                      0.3449
                                                                              0.7730
```

							•			
CAL	292 F	UN 76	DATE 17	OCT 80 TI	ME 02.23	RECOME	. NO. 1	DISK	1 PA	AGE 22
3 NO	• 11	LDGR ACC	T 31302	CONTRACT 163	S UB	ACCT 10001	L	ACO DATE	19 AUG 80	0.21
DD 6	8 ALPHA	WIND ON RUI	N, C/B=60 DE	G, FWD=54 DEG	, AFT=22	DEG. MEAN=3	B8 DEG,	$^{\mathrm{P}}\mathrm{_{T_{S}}}$	P _A	
		(CMU=2						14.272	
SUMMARY PAGE										
						• • • •			0706011	0704611
NO	ALPHA H		CLH	CDH	CWH	YM	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPVCH
	PH]	THETA	THRUST	DELAL .	_ WFT	THTH	CMUTH	COR	CDAK	
1	1.5906	15.2818	3.6629	-0.7073	0.7613	4645.3129	13928.5078	1.8990	1.8894	1.8937
-	1.3000			1.5401	8.2032	263.1399	1.8175	1.0391	-1.7464	
_	n 1551	1	2 1505	0.0270	0 (220	4405 0400	12392.9881	1.8926	1.8923	1.8945
2	-2.4851			-0.9269 1.3268	0.6328 8.1953	265,1926	1.8258	1.0418		1.0445
	1.3000	73.6047	415+2000	1 +3200	0 4 1 3 3 3	20.85550	1.08.20	140410	1	
3	-6.6336	5 15.0708	2.6967	-1.0972	0.5068	4633.9084	10912.8503	1.8895	1.8011	1.8928
_	1.300			1,1351	8.1738	262.3182	1.8489	1.0476	-2.1449	
4	380 - 10.666	7 15.4113		-1.1804	0.3628	4692.2818				1.8905
	1.3000	-61.7015	361.2580	0 .9293	8,1638	231.8754	1.8050	1.0350	-2.2155	
5	1.5426	5 15.0724	3.6625	-0.7311	0.7690	4677 6476	13781.6968	1.8923	1.8883	1.8038
3	1.2000			1.5457	8.1960	263,4680	1.8568			
	142000		JE 7 6 3 TJE	1 42421	0,1700	2.0241000	20000	200710		
6	5.5091	5 15.1137	4.1688	-0.4812	0.8842	4653,2982	15339.1121	1.8926	1.8904	1.8903
	1.2004	9 ~83.4146	597.0847	1.7698	8.1911	263.4559	1.8516	1.0501	-1.5313	
_				0.000	0 0754	/764 F107	14644 0440	1 0027	1 0007	1.8928
7	9.6180			-0.2590	0.9754		16566.0668			1.0480
	1.3000	n -86.7442	651.5819	1.9462	8.1593	a2.6601	1.8388	1.0449	-1.0000	
8	13.629	5 15.0340	4.9802	0.0203	0.9995	4936.3818	17786.5117	1.8986	1.8880	1.8919
• • •	1.3000			2.1481	8.1526	262.6999	1.8561		-1.0291	
			•							
9	17.634			0.3243	1.0488		18890.5078			1.8974
	1.300	n 86.4962	752.3736	2.3153	8.1373	261.6581	1.8459	1.0448	-0.7204	
ιo	21.672	14.8779	5.6244	0.6351	1.0656	5524 - 1062	19741.8739	1.8968	1.8878	1.8918
(O	1.3000	-		2.4911	8.1256	261.4091	1.8663			* * * * * * * * * * * * * * * * * * *
	1 0 2000		1/201013	E 57 /AA	I L J O	E-0.1 - 1.0 / F	2 2 11 10 10 10			

```
NACAL 292 RUN 76 DATE 17 OCT 80 TIME 02.19 RECOMP. NO. 1
                                                                       DISK 1
                                                                                  PAGE 2
JOB MO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACC DATE 18 AUG 80 23.55
        ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
MOD 68
                     CMU=2
DATA POINT 1
                                            -0.3857
                                        0.7941
                                                 0.0632
                                       -0.6955 0.3468
             0.3115 -0.0475
                                        -0.8092 0.0970
           0.1415
                        -3.2300
                                                             -1.3715 0.8538
          0.0372
                        -3.5839
         0.5505
                                                            -2.7321
          0.8506
           0.9090
                            0.7634
                                                           -1.7224
                                                                          0.8000
             0.9000 0.8969
                         0.8977 -0.1137
                                                               0.3144
                                                                            0.7814
                            0.8975 0.1531
                                                                   0.6454
                                                                              0.7968
                              C. 8828 0.4522
                                                                        0.7342
      0.4326 0.2439 0.3004
                            0.7864
                                           0.2296 0.7963 0.2464 0.2520 0.7920
                                    0.0335
```

PAGE 14

NACAL 292 RUN 76 DATE 17 DCT 80 TIME 02.21 RECOMP. NO. 1 DISK 1 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 19 AUG 80 0.07 MOD 68 ALPHA WIND ON RUN, C/B=60 DEG: FWD=54 DEG: AFT=22 DEG: MEAN=38 DEG: DATA POINT 7 -0.4445 0.7904 0.0255 -0.6139 0.2034 -0.0610 -0.0073 -0.7358 0.0271 -0.1299-2.9835 -0.5790 -1.1482 0.8804 0.1911 -3.2453 0.6704 -2.3356 0.8784 0.7882 0.9081 0.9062 -1.4045 0.7960 0.8994 -0.0358 0.4012 0.7902 0.8960 0.2408 0.6610 0.8893 0.4846 0.7966 0.7464

0.1042 -0.0189 0.1408 0.7926 0.1253 0.1260 0.8050 0.1706 0.1564 0.8044

2

```
NACAL 292
             RUN 76 DATE 17 OCT 80 TIME 02.22
                                                          RECOMP. NO. 1
JOS NO. 11
             LDGR ACCT 31302
                                                                            DISK 1
                                                                                         PAGE 16
                                  CONTRACT 1631
                                                   SUB ACCT 10001
MOD 68 ALPHA WIND ON RUM, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                                                                        ACO DATE 19 AUG 80 0.0R
DATA POINT 8
                                               -11.4230
                                           0.7879
                                                    0.0410
                                          -0.5312
                                                    0.2310
             -0.2458 -0.1055
           -0.2111
                                           -0.6671 -0.0006
                         -2.6223
         -0.7620
                                                                 -1.0055
         0.0172
                                                                            0.8853
                          -2.9341
          0.5602
                                                               -1.9902
           0.8537
                             0.8093
              0.8983 0.9037
                                                              -1.1848
                                                                              0.7943
                          0.8977 -0.0135
                                                                  0.4279
                                                                                 0.7737
                             0.9015 0.2684
                                                                       0.6844
                               0.8949 0.5308
                                                                                  0.7971
                                                                            0.7596
     0.1483 -0.1025 -0.0927 0.7889 0.1402
                                             0.0813
                                                     0.8037
                                                             0.1334
                                                                     0.1228 0.7951
```

0.7944

1

```
RECOMP. NO. 1 DISK 1
           RUN 76 DATE 17 OCT 80 TIME 62.22
                                                                                         PAGE 20
NACAL 292
                                                   SUB ACCT 10001 ACO DATE 19 AUG 80 0.20
                                  CONTRACT 1631
                LDGR ACCT 31302
JOB NO. 11
MOD 68 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                       CMU=2
DATA POINT 10
                                                -0.2738
                                            0.7886
                                                     0.0528
                                           -0.2598 0.3612
                                           -0.5224 -0.0041
              -0.5021 -0.3648
                                                                             0=7450
                                                                   -0.7138
           -0.5234
                          -2.0720
           -0.4618
                                                                 -1.5534
          -0.2428
                           -2.1855
            0.3312
                                                                                0.8199
                                                                -0.8419
                              0.7709
            0.7892
               0.8814 0.9012
                                                                     0.4914
                            0.8943 0.0954
                                                                                   0.7864
                                                                         0.7152
                               0.9026 0.3932
                                                                                     0.8017
                                                                               0.7774
                                 0.8970 0.6071
```

0.0825 -0.4100 -0.3550 0.7839 0.0924 -0.0164 0.7944 0.0813

NACAL 292 RUN 77 DATE 17 DCT 80 TIME 02.33 RECOMP. NO. 1 DISK 1 PAGE 22

JOB NO. 11 LDGP ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 19 AUG 80 17.02

MOD 69 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG, CMU=4

P_{TS} P_A
14.67 14.272

SUMMARY PAGE

PT	NO	ALPHA H PHI	O H THETA	CLH THRUST	C DH D EL A L	CMH . WFT	. YM . THTH	RL CMUTH	PTPFCH CDR	PT PCBH CDHR	PTPACH
	1	2.0401 1.2000	7.6513 -65.6438	5.0983 403.1075	-2.3079 1.9298	0.9801 8.1328	6131.5186 268.9822	9761.4133 3.7343	1.9475 1.4921	1.5268 -3.8001	1.9419
	2	-2.2022 1.2000	7.8643 -60.0210	4.3499 371.7966	-2 •5 093 1 •6552	0.8344 8.1202	6024.0659 268.7747	8999.7893 3.6303	1.9488 1.4701	1.5466 -3.9794	1.9434
	3	-6.4114 1.2000	7.9602 -53.2061	3.6241 339.1429	-2.7105 1.3882	0.6810 8.1340	5967.9251 269.6064	8121.0009 3.5977	1.9511 1.4644	1.9490 -4.1750	1.9447
	4 385	-10.4875 1.2000	7.8694 -46.2618	3.0323 310.9225	-2.9015 1.1702	0.5107 8.1335	6018.3297 269.5858	7247.1555 3.6389	1.9472 1.4733	1.9472 -4.3750	1.9473
	5	1.9072 1.3000	7.7519 -66.1007	5.0960 406.7717	-2.2581 1.9335	0.9789 8.1437	6081.0846 270.2166	9924.3129 3.7027	1.9431 1.4870	1.5504 -3.7452	1.9509
	6	6.0332 1.3000	7.6785 -71.5618	5.8193 443.4198	-1 .9401 2 .2111	1.1293 8.1233	6125.3208 269.4125	10793.5019 3.7270	1.9475 1.4907	1.9427 -3.4309	1.9510
	7	10.1576 1.3000	7.7748 -76.0270	6.3349 477.8081	-1 .5 762 2 .42 60	1.2432 8.1324	6217.7873 269.5441	11609.8661 3.6826	1.9482 1.4834	1.5396 -3.0597	1.9445
	8	14.1537 1.3000	7.5934 -79.7923	6.9364 503.8281	-1 .2490 2.6676	1.3462 8.1075	6299.0403 268.8075	12210.6456 3.7603	1.9496 1.4974	1.9396 -2.7464	1.9423
	a	18.2530 1.3000	7.4278 -83.7718	7.6175 535.8276	-0.8313 2.9454	1.4586 8.1163	6481.2303 269.3546	12937.2519 3.8520	1.9409 1.5164	1.9408 -2.3477	1.9430
	10	22.3861	7.4375 -87.5587	8.0664 565.2999	-0.3439 3.1700	1.5253 8.1070	6624.1240 269.2349	13663.8149 3.8453	1.9523 1.5140	1.9422 -1.8579	1.9427

```
PAGE 2
                                                                                 DISK 1
                                                              RECOMP. NO. 1
                                              TIME 02.29
                          DATE 17 DCT 80
              RUN 77
NACAL 292
                                                                              ACO DATE 19 AUG 80 16.45
                                                      SUB ACCT 10001
                                    CONTRACT 1631
                 LDGR ACCT 31302
JOB NO. 11
 MDD 69 ALPHA WIND ON RUN, C/R=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                         CMU=4
DATA POINT 1
                                                   -0.1812
                                                        -0,0948
                                               0.3851
                                                        0.1302
                                              -1.1810
                                               -1.4031 -0.0403
                0.0215 -0.0157
                                                                       -1.7985
                                                                                   0.4324
                            -3.6061
             -0.6527
            -0.1655
                                                                     -3.4866
                              -4.1306
            0.1801
             0.3829
                                                                                      0.3984
                                                                    -2.3782
                                 0.3072
              0.4378
                 0.4432 0.4409
                                                                         -0.1600
                              0.4401 -0.6185
                                                                                         0.3855
                                                                              0.2315
                                 0.4368 -0.3320
                                                                                           0.3917
                                                                                    0.3163
                                             0.0000
                                    0.4293
                                           0.0141 -0.0885 0.3812 -0.0594 -0.0600 0.3849
                                  0.3880
        0.0326 -0.0351 -0.0200
```

ŝ

```
MACAL 292
             RUN 77
                      DATE 17 NCT 80
                                          TIME 02.31
                                                            RECOMP. NO. 1
                                                                               DISK 1
JOB NO. 11
                                                                                            PAGE 14
                LDGR ACCT 31302
                                   CONTRACT 1631 SUB ACCT 10001
                                                                           ACO DATE 19 AUG 80 16.59
FOD 69 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
DATA POINT 7
                                                 -0.3271
                                             0.4025
                                                     -0.1176
                                            -1.0921
                                                      0.1141
              -0.1612 -0.0569
                                            -1.2646 -0.0978
           -0.2734
                          -3.4466
          -0.5760
                                                                    -1.7239
                                                                               0.4450
         -0.0569
                           -3.9881
           0.2748
                                                                  -3.2138
            0.4365
                              0.3133
   387
              0.4602 0.4569
                                                                 -2.1756
                                                                                 0.4081
                           0.4594 -- 0.5559
                                                                    -0.1054
                                                                                    0.3465
                              0.4560 -0.2300
                                                                          0.2616
                                0.4507
                                         0.0506
                                                                                      0.4028
                                                                               0.3426
     0.0610 -0.1843 -0.0685 0.3904 0.0259 -0.1479 0.3960 -0.1133 -0.1115
```

```
RECOMP. NO. 1
NACAL 292
              RUN 77
                            DATE 17 NCT 80
                                                TIME 02.32
                                                                                   DISK 1
                                                                                                 PAGE 16
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                       SUB ACCT 10001
                                                                                ACO DATE 19 AUG 80 17.00
       ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MFAN=38 DEG,
MOD 69
                         CMU=4
DATA POINT 8
                                                    -0.3888
                                                0.3920
                                                        -0.1480
                                               -1.0332
                                                         0.0770
                                               -1.2282 -0.1907
               -0.3182 -0.1243
                                                                        -1.7136
                                                                                    0.4398
            -0.3523
                            -3.3368
           -0.7482
          -0.1746
                              -3.7668
                                                                      -3.1313
            0.1909
                                                                     -2.0871
             0.4081
                                 0.2973
                                                                                       0.3990
                0.4492 0.4527
                              0.4515 - 0.5100
                                                                         -0.0865
                                                                                          0.3896
                                 0.4455 -0.2168
                                                                               0.2567
                                                                                            0.3954
                                                                                     0.3312
                                    0.4477 0.0605
```

0.3923 -0.1418 -0.1515 0.4009

0.0505 -0.2710 -0.1461 0.3960 0.0166 -0.1728

```
NACAL 292
             RUN 77
                          DATE 17 NCT 80
                                             TIME 02.33
                                                           RECOMP. NO. 1
                                                                              DISK I
                                                                                           PAGE 20
JOB NO. 11
               LDGR ACCT 31302
                                   CONTRACT 1631
                                                    SUB ACCT 10001 ACO DATE 19 AUG 80 17.01
MOD 69 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                        CMU=4
DATA POINT 10
                                                -0.4308
                                            0.3954
                                                     -0.1627
                                            -0.9879
                                                    0.0777
              -0.6045 -0.3165
                                            -1.1474 -0.1420
           -0.5827
                          -2.8038
                                                                   -1.5729
                                                                              0.4342
          -0.5893
         -0.2534
                            -3.4739
                                                                  -2.8912
           0.0565
            0.3662
                               0.2578
                                                                 -1.9470
                                                                                 0.3951
               0.4341 0.4470
                            0.4520 -0.4586
                                                                    -0.0331
                                                                                    0.3860
                              0.4503 -0.1374
                                                                          0.2692
                                                                                      0.3899
                                 0.4495
                                         0.0996
                                                                               0.3384
     -0.0291 -0.5196 -0.4475 0.3904 0.0326 -0.2486 0.3904 -0.2019 -0.2037 0.3929
```

••

					•					
ACAL	292 R	UN 78	DATE 17	TCT 80	TIME 02.4	3 RFCNM	P. NO. 1	DISK	i	PAGE 20
DB NO.	11	LDGR ACCT	31302	CONTRACT	1631 SU	B ACCT 1000	1	ACO DATE	19 AUG 8	0 19.27
40D 7 0	ALPHA	WIND ON RUN C	. C/B=60 DE MU=0, AUGME	G, FWD=54 ENTOR 2	DEG, AFT=22	DEG, MEAN=	38 DEG.	$^{\mathtt{P}}\mathtt{T}_{\mathtt{S}}$	PA	
					SUMMARY PAGE	•		14.82	14.296	
T NO	ALPHA H	он	CLH	CDH	СМН	YM	RL	PTPFCH	РТРСВН	OTO ACU
	PHI	THETA	THRUST	DELAL		. тнтн	CMUTH	CDR	CDHR	PTPACH
1	0.1985	10.7065	0.4057	0.3040	0.1279	-615.3188	1616.2148	0.9889	0.950	0.0010
	1.2000	53.1546	73.7019	0.2650		1,4988	0.0103	0.0395	0.2644	
2	-2.7474	11.0168	0.2373	0 .2 952	0.0258	-651.9319	1062.9803	0 0005	0.001	
	1.3000	38.8034	56.6591	0.1493		0.2174	0.0014	0.9905 0.0044	0.9961 0.2907	0.9ª64
ž	-7.7727	10.8644	0.0614	0 •2 907	-0.0854	/52 O1/5	250 00.5			
-	1.2000	11.9243	43.8317	0 • 02 83		-652.2145 0.1853	359.8865 0.0012	0.9904	0.5968	0.9902
				, ob	0.0120	0 6 1 0 2 5	0.0012	0.0045	0.2862	
390	-11.8783	10.7746	-0.2825	0 .2 98 0		-477.1844	-1061.8587	0.9905	0.9972	0.9929
ŏ	1.2000	-43.4759	60,0719	-0,2005	0.1076	0.4219	0.0028	0.0114	0.2865	
5	0.2102	10.7600	0.4249	0.3128	0.1277	-666.4390	1658.0519	0.9904	0.0964	0.9936
	1.3000	53.6422	77.0896	0.2761		1.6190	0.0110	0,0550	0.2578	0.7420
6	4.1286	10.6671	0.5886	0.3298	0.2260	-465.8761	2191.0989	0.9895	0 6000	0.0045
	1.3000	60.7377	97.7211	0.3909		1.4233	0.0098	0.0454	0.5950 0.2843	0.9941
7	P.1405	10.6548	0.7730	6 2200						
•	1.3000	66.3263	122.0913	0.3389 0.5179		-374.2364	2690.4128	0.98 98	0.0940	0.9746
	2 4 2	001.200	18200313	0.5179	0.4964	1 = 6496	0.0114	0.0530	0.2858	
8	16.0386	10.4233	1.1310	0.4762	0.4543	-319.0736	4130.8759	0.9950	0.9961	0 0003
	1.3000	67.1675	173.6625	0.7720		0.1665	0.0011	0.59350	0.4681	0.9983
c ;	19.9166	10.4786	1.0959	0.5877	0.4427	-180.7605	4175.7637	0.9942	0.0041	0 0000
	1.3000	61.7966	176.9161	0.7560		1.1011	0.0077	0.9942	0.9945 0.5469	0.9974

```
0
```

```
NACAL 292
               RUN 78
                            DATE 17 DCT 80
                                                TIME 02.39
                                                                RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 2
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACO DATE 19 AUG 80 18.57
 MOD 70 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                         CMU=0, AUGMENTOR 2
DATA POINT 1
                                                           0.4066
                                                      0.5176
                                                                0.4827
                                                      0.3730
                                                                0.5105
            0.4785 0.5063 0.5341 0.0018
                                                       0.4581
                                                                0.4824
        0.4538
                                         0.4377
    0.4235
                                                                               0.4853
                                                                                          0.4782
  0.5168
                                           0.4575
0.5737
                                                                             0.4599
  0.5787
                                            0.5440
    0.4881
                                                                            0.3703
                                                                                            0.4825
        0.5284
              0.5393 0.5513 0.5585
391
                                                                               0.4687
                                    0.5744
                                              0.4519
                                                                                               0.4530
                                                                                    0.4831
                                       0.5773
                                                 0.4500
                                                                                                 0.4838
                                                                                          0.4828
                                          0.5532
                                                   0.4442
      0.5249
               0.5156
                        0.5218
                                 0.5082
                                          0.0370
                                                   0.5286
                                                           0.5199
                                                                    0.5218
                                                                             0.5168
```

_ 10!	AL 292 10. 11 D 70 ALPHA	RUN 78 LDGR ACCT A WIND ON RUN C	31302	7 OCT 80 CONTRACT DEG, FWD=54 MENTOR 2		02.42 SUB ACC FT=22 DEG,			DISK ACO DATE		PAGF 14 80 19.23
. DAT	A POINT 7										
						0.40	00.5				
						0.5172	0.4876				
						0.3872	0.5141				
	0. (4031 0.24(5	4470 0.4785	0.5230	0.2027		0.4564	0.4799		0.4927	0.4769	
	0.43462 5069			0 .45	56			0	4364		
	0.6013 0.5809 0.5634			0.	5620			0.3	3653	0.47	PR
392 ·		0.5660 0.56	74 0.5674		0.4545				0.4513		. 4354
70				0.5801	0.45	30			0.46	64	
				0.56	96 0	•4372				0.4751	0.41130
	0.5100	0.4779 0.	5057 0.	5292 0.176	68 0.	5150 0.5	199 0.52	61 0	•5082 O•	5131	

NACAL 292 **RUN 78** DATE 17 OCT 80 TIME 02.42 RECOMP. NO. 1 DISK 1 PAGE 18 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 19 AUG 80 19.26 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG, CMU=0. AUGMENTOR 2 DATA POINT 9 0.4499 0.5088 0.4553 0.4363 0.4978 0.4334 0.4500 0.5199 0.1928 0.4452 0.4678 0.3944 0.4507 0.4593 0.2126 0.4505 0.2213 0.4463 0.4587 0.3660 0.5227 0.5508 0.4606 0.5902 0.4858 0.5826 0.5778 0.5702 0.5628 0.4618 393 0.5758 0.4585 0.4621 0.4571 0.5762 0.4641 0.4732 0.4540 0.5643 0.4715 0.4618 0.4581 0.4599 0.5088 0.1990 0.5075 0.4661 0.4686 0.4704 0.5094

NACAL 292 RUN 78	B DATE 17 OCT 80	TIME 02.41	RECOMP. NO.	1 DISK	1 PAGE 10
JrB NO. 11 ',DGF	R ACCT 31302 CONTRACT	1631 SUB ACC	T 10001	ACO DATE	19 AUG 80 19.22
MOD 70 ALPHÀ WIND (DN RUN, C/B=60 DEG, FWD=54 CMU=0, AUGMENTOR 2	DEG. AFT=22 DEG.	MEAN=38 DEG,		
DATA POINT 5					
		0.4	041		
•• • · · ·	•	0.5247	0.4868		
		9.3882	0.5165		
0.4624	0.5181 0.5292 0.1694 0.4562	0 •4571	0.4803	0.4850	0.4794
0.4055 0.5329	0.45	519		0.4463	
0.560 0.5827 0.4893	0.	5545		0.4074	0.4845
0.5277 0.5455		0.4494		0.4718	0.4\\98
394				0.4	751
T	0.5773	0,4514			0.4833 0.4817

0.5554 0.4431

0.5422 0.5385 0.5267 0.5329 0.1397 0.5193 0.5113 0.5354 0.5292 0.5119

JACAL 292 RUN 79 DATE 17 OCT 80 TIMF 02.55 RECOMP. NO. 1 DISK 1 PAGF 22 ACO DATE 19 AUG 80 19.48 OB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 $^{\mathtt{P}}\mathtt{T}_{\mathtt{S}}$ ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG, MOD 71 CMU=1, AUGMENTOR 2 14.83 14.296 SUMMARY PAGE T NO ALPHA H O H CLH CDH YM RL CMH PTPFCH PTPCBH PTPACH THETA THRUST THTH PHI DELAL WFT CMUTH CDR COHR 1 1.5583 10.7392 2.5221 -0.22160.5803 2023.3964 9747.2932 1.3987 1.3924 1 . 3000 5.4651 1.3000 -84.9774 369.1337 1.5768 130.6225 0.8959 0.5811 -0.8028 2 -2.531910.5044 2.1639 -0.3743 0.4552 2028.6060 8401.3779 1.3965 1.3947 1.3875 1.3000 -80.1854313.1769 1.3462 5.4603 130.5831 0.9156 0.5874 -0.5618 3 -6.6924 10.7274 1.7093 -0.48420.3151 2099,2957 7117.4429 1.4012 1.3980 1.3903 5.4563 1.3000 -74.1818258.7424 1.0655 130.9791 0.8993 0.5811 -1.0653 -10.7404 -0.5780 0.1845 2300.2057 4 10.6730 1.3636 5853.0501 1.3996 1.39A2 1.3921 1.2000 5.4908 131.9102 0.5865 -1.1545 -67.0274 214.6034 0.8525 0.9103 395 2020.7979 5 1.6398 10.4936 2.5608 -0.22 93 0.5866 9650.5098 1.3995 1.3963 1.3906 1.3000 1.5984 0.5909 -0.8202 -84.8824 366.2834 5.4831 131.5962 0.9237 6 5.6822 10.2730 2.9529 -0.08200.7270 1965.5191 10871.7204 1.3986 1.3960 1.3903 1.3000 -88.4092416.0086 1.8494 5,4589 130.9975 0.9302 0.5919 -0.67397 9.7710 10.5556 3.2895 0.1078 0.8338 1947.6353 12189.2952 1.3992 1.3960 1.3080 1.3000 88.1226 471.6601 2.0778 5.4638 131.1068 0.9148 0.5874 -0.4795 8 13.8613 10.4798 3.6539 0.3465 0.9477 1938.5610 13375.5531 1.3993 1.3971 1.3893 1.3000 84.5819 522.1938 2.3353 5.4763 131.5955 0.9249 0.5911 -0.2446 9 17.9118 10.3160 3.9828 0.5700 1.0379 2038.9367 14322.8976 1.3992 1.3962 1.3886 1.3000 81.8544 563.4803 2.5729 5.4455 130.8020 0.9339 0.5926 -0.0226 10 22.0469 10.4358 4.2137 0.8261 1.0919 2131.7465 15371.1791 1.3987 1.3986 1.3889

5.4679

131.5766

0.9287

0.5920

0.2341

1

1.3000

78,9069

608.3545

2.7695

```
DATE 17 OCT 80
                                                 TIMF 02.51
                                                                 RECOMP. NO. 1
NACAL 292
              RUN 79
                                                                                     DISK 1
                                                                                                   PAGE 2
                                                         SUB ACCT 10001
JOB NO. 11
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                                                  ACQ DATE 19 AUG 80 19.33
MOD 71
         ALPHA WIND ON RUM, C/B=60 DEG, FWD=54 DEG, AFT=22 DFG, MEAN=38 DFG;
                          CMU=1, AUGMENTOR 2
DATA POINT 1
                                                            -0,0682
                                                        0.5418
                                                                  0.0936
                                                       -0.2720
                                                                  0.3053
                                                                  0.0812
            0.3671 0.4204 0.4656 0.0712
                                                        -0.2586
        0.3133
                                         -1.5106
                                                                                -0.69
                                                                                            0.5591
    0.0959
   0.2365
                                           -1.5891
                                                                              -1.3347
0.4513
                                              0.5801
                                                                             -0.8009
                                                                                               0.5437
   0.6062
    0.6096
        0.5908
                                                                                  0.2916
               0.5988 0.5976 0.5971
                                      0.6062
                                                0.0862
                                                                                                  0.5375
                                                                                       0.4677
                                                   0.2082
                                         0.6086
396
                                                                                                    0.5469
                                                                                             0.5106
                                            0.5969
                                                      0.3738
                                                                                         0.5281
        0.4470
                0.3814
                         0.3225
                                            0.0792
                                                     0.3479
                                                              0.5436
                                                                       0.3504
                                                                                0.3170
                                   0.5343
```

تهج

```
NACAL 292
              RUN 79
                            DATE 17 OCT 80
                                                TIME 02.53
                                                                 RECOMP. NO. 1
                                                                                     DISK 1
                                                                                                   FAGE 14
JOB NO. 11
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                  ACO DATE 19 AUG 80 19.44
        ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DFG, MEAN=38 DEG,
 MGD 71
                         CMU=1, AUGMENTOR 2
DATA POINT 7
                                                           -0.1322
                                                       0.5363
                                                                 0.0709
                                                      -0.2508
                                                                 0.2851
            0.2736 0.3609 0.4309 0.0879
                                                       -0.2140
                                                                 0.0820
        0.1907
                                        -1.5550
                                                                               -0.6451
                                                                                           0.5565
   -0.2513
 -0.1278
                                          -1.5234
                                                                             -1.2246
0.1770
  0.4613
                                             0.5814
                                                                            -0.6658
                                                                                              0.5344
    0.6047
        0.6152
397
              0.6106 0.6072 0.6024
                                                                                 0.3183
                                     0.6056
                                               0.1077
                                                                                                 0.5263
                                                                                      0.4708
                                        0.6072
                                                  0.2323
                                                                                                   0.5417
                                                                                            0.5005
                                           0.6028
                                                     0.3870
                0.3219
       0.4526
                                  0.5454
                         0.3182
                                           0.1213
                                                   0.3194
                                                             0.5479
                                                                      0.3232
                                                                               0.2872
                                                                                        0.5330
```

```
NACAL 292
              RUN 79
                             DATE 17 OCT 80
                                                TIMF 02.54
                                                                RECOMP. NO. 1
                                                                                     DISK 1
                                                                                                   PAGE 16
JOB NO. 11
                  LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                 ACO DATE 19 AUG 80 19.45
        ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
 MOD 71
                         CMU=1, AUGMENTOR 2
B THIOG ATAC
                                                           -0.1107
                                                       0.5369
                                                                 0.0792
                                                      -0.3116
                                                                 0.2960
            0.1869 0.2309 0.4037 0.0792
                                                       -0.0485
                                                                 0.0997
        0.2117
                                        -1.1053
                                                                               -0.5630
   -0.0152
                                                                                           0.5442
 -0.1570
                                          -1.2739
                                                                             -1.1302
0.0390
  0.3882
                                             0.5473
                                                                            -0.6323
                                                                                              0.5358
    0.5702
        0.6143
              0.6149 0.6090 0.6022
                                                                                 0.3553
                                     0.6089
                                               0.1480
                                                                                                 0.5262
                                                                                      0.4870
                                        0.6083
                                                  0.2621
                                                                                                   0.5403
                                                                                            0.5209
                                           0.6000
                                                     0.4209
       0.4569
                0.3145
                         0.3064
                                  0.5355
                                           0.1349
                                                    0.3182
                                                             0.5386
                                                                      0.3182
                                                                               0.2928
                                                                                        0.5380
```

```
VACAL 292
              RUN 79
                             DATE 17 OCT 80
                                                 TIME 02.55
                                                                 RECOMP. NO. 1
                                                                                                    PAGE 20
                                                                                      DISK 1
                                                         SUB ACCT 10001
JOB NO. 11
                 LDGR ACCT 31302
                                      CONTRACT 1631
                                                                                   ACO DATE 19 AUG 80 19.47
         ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
MOD 71
                          CMU=1. AUGMENTOR 2
DATA POINT 10
                                                             -0.0107
                                                        0.5356
                                                                   0.1331
                                                       -0.1837
                                                                  0.3396
            0.0860 0.0761 0.2897 0.0458
                                                                  0.1158
                                                        -0.0429
        0.0730
                                         -0.9927
                                                                                 -0.3864
                                                                                             0.5406
   -0.0772
                                           -1.0681
 -0.3591
                                                                               -0.8588
0.2318
                                              0.4910
  0.1594
                                                                              -0.4686
                                                                                                0.5329
    0.4511
        0.5993
               0.6100 0.6131 0.6053
                                                                                   0.3864
                                      0.6096
                                                0.2124
                                                                                                   0.5259
                                                                                        0.5020
                                         0.6100
                                                   0.3316
                                                                                                     0 - 5395
   399
                                                                                              0.5270
                                                      0.4480
                                            0.6044
       0.3046
                0.2179
                         0.1962
                                   0.5442
                                            0.1523
                                                     0.2985
                                                               0.5386
                                                                        0.3033
                                                                                 0.2860
                                                                                          0.5287
```

ACAL	292	NU A	80	DATE	17	OCT 80	TIME	03.47	RECOMP	P. NO. 1	DISK	1	PAGE 26
ов ис	J. 11	LD	GR ACCT	31302		CONTRACT	1631	SUB	ACCT 10001	L	ACO DATE	19 AUG 8	30 21.48
40D 7	2 ALPHA	WIND		C/B=60 MU=2, AL			DEG.	AFT=22 [DEG: MEAN=3	BB DEG.	$^{\mathtt{P}}_{\mathtt{T}_{\mathtt{S}}}$	P _A	
				,								14.296	
	•						SUMMA	RY PAGE					
סא ז	ALPHA PHI	Н	O H THETA	CL I THR (C DFL A		CPH WFT	MY HTHT	RL CMUTH	PTPFCH CDR	PTFCBI CDHR	1 PTPACH
1	2.065	2 1	0.6612	3.24	416	-0.951	. 6	0.7218	5574.7726	12593.3838	1.9264	1.9272	1.9266
	1.200		3.6386	488.99	29	1.870		8.2188	269.4066	1.8613	0.8765	-1.8282	2
2	-2.268 1.200		0.4812 7.0731	7.76 427.89		-1 .1 71 1 .592		0.5773 8.2247	5517.2234 269.9243	11059.2460			
3	-6.480 1.200		0.8953 0.1593	2.21 378.45		-1 .273 1.287		ს • 4] 7 4 8 • 228 1	5585.1368 270.6113	9790.5314 1.8295			
4	-10.512 1.200		0.5390 1.2113	1.80 330.52		-1 .447 1 .048		0.2794 8.2039	5801.7480 270.2882	8255.8484 1.8890			
5	1.813		0.6522 2.8349	3.1° 480.20		-0.980 1.830		0.7055 8.1935	5589.5669 269.9835	12398.0747 1.8669			
6	6.013 1.300		0.4754 8.1896	3.69 536.55		-0.772 2.133		0.8546 8.1742	5568.6860 269.7430	13805.2046 1.8967			
7	1.980 1.200		0.8560 3.2627	3.15 485.05		-0.947 1.823		0.7127 8.1870	5577.8198 269.8523	12504.2716 1.8309			
8	5.971 1.200		0.5645 8.0555	3.66 537.36		-0.775 2.119		0.8712 8 _± 1685	5563.1919 269.5117	13789.9350 1.8791		1.5225 -1.6560	
ò	10.097 1.200		0.4598 2.5374	4.14 594.21		-0.543 2.405		1.0113 8.1618	5611.9712 269.4445	15164.1495 1.8974]. ⁶ 237 -1.428]	
10	14.253 1.300		0.4046 6.7449	4.58 648.18		-0 .260 2.685		1.1361 8.1721	5675.0432 270.0824	16409.4015 1.9120	-	1.9225 -1.1496	

ACAL 292 RUN 80 DATE 17 OCT 80 TIME 03.47 RECOMP. NO. 1 DISK 1 PAGE 27

DB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 19 AUG 80 21.48

MOD 72 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG, CMU=2, AUGMENTOR 2

SUMMARY PAGE

L NO	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	· THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	18.2840 1.3000	10.1817 89.5180	5.0508 698.1878	0.0424 2.9867	1.2552 8.1608	5783.8208 270.0981	17583.6023 1.9540	1.9289 0.8983	1.9252 -0.8558	1.9278
12	22.5481 1.3000	10.0649 86.0126	5.4790 750.4836	0.3819 3.2800	1.3653	5966.5157 270.4025	18775.9103 1.9780	1.9287 0.9047	1.9235 -0.5228	1.9294

```
MACAL 292
              RUN 80
                            DATE 17 OCT 80
                                               TIME 03.44
                                                               RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 10
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                       SUB ACCT 10001
                                                                              ACQ DATE 19 AUG 80 21.10
 MOD 72
       ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                         CMU=2, AUGMENTOR 2
DATA POINT 5
                                                          -0.0791
                                                      0.5357
                                                               -0.0648
                                                     -1.0829
                                                                0.2385
            0.3366 0.3780 0.4381 0.2054
                                                      -1.2188
        0.2704
                                                                0.1111
                                       -3.4440
    0.0160
                                                                             -1.6441
                                                                                         0.5734
  0.1670
                                         -3.9969
0.4201
                                                                           -3.4477
  0.5875
                                            0.3985
    0.6156
                                                                          -2.3546
                                                                                           0.5539
        0.6006
             0.6045 0.5988 0.5958
402
                                                                              -0.0393
                                    0.6065
                                            -0.4884
                                                                                              0.5388
                                                                                    0.3747
                                       0.6014
                                               -0.2123
                                                                                                0.5474
                                                                                         0.4738
                                         0.5916
                                                   0.1418
      0.2712
               0.2753
                        0.2722
                                0.5383
                                         0.0754
                                                  0.2475
                                                           0.5346
                                                                    0.2679
```

TIME 03.45 DISK 1 PAGE 19 DATE 17 OCT 80 RECOMP. NO. I NACAL 292 **RUN 80** SUB ACCT 10001 ACQ DATE 19 AUG 80 21.44 LDGR ACCT 31302 CONTRACT 1631 JOB NO. 11 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG, MOD 72 CMU=2, AUGMENTOR 2 DATA POINT 9 -0.19050.5453 -0.0668 -1.0444 0.1916 0.0897 0.2450 0.3013 0.3514 0.1850 -1.23450.5827 -1.6161 -3.4151 0.1175 -0.3631 -3.3364 -0.2396-4.0304 0.0674 -2.2536 0.5539 0.3719 0.4263 0.6006 0.6237 -0.0095 0.6193 0.6149 0.6063 0.5395 0.6136 -0.45110.3922 0.6115 -0.1655 0.5447 0.4825 0.6049 0.1599

0.5501

0.2004

0.3997 0.2202

0.1058

0.2178

0.5445

0.2537

0.2252

1

```
PAGE 20
                                                                                    DISK 1
                                                TIME 03.46
                                                                 RECOMP. NO. 1
                             DATE 17 OCT 80
              RUN 80
NACAL 292
                                                                                  ACQ DATE 19 AUG 80 21.45
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
JOB NO. 11
         ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
 MOD 72
                          CFU=2, AUGMENTOR 2
DATA POINT 10
                                                            -0.1403
                                                                 -0.0956
                                                        0.5388
                                                                  0.1863
                                                       -1.0028
                                                        -1.1885
                                                                  0.0908
             0.0717 0.1905 0.3539 0.1522
                                                                                -1.5377
                                                                                            0.5720
                                         -3.1216
         0.1361
    -0.0833
                                                                              -3.2317
                                           -3.7798
  -0.7785
-0.0492
                                                                                               0.5460
                                                                             -2.1843
                                              0.2499
   0.3083
     0.5478
         0.6200
                                                                                 -0.0003
               0.6200 0.6094 0.6028
 404
                                                                                                  0.5251
                                      0.6070
                                               -0.4219
                                                                                       0.3913
                                         0.6070
                                                  -0.1551
                                                                                                    0.5337
                                                                                             0.4864
                                            0.5998
                                                      0.1897
                                                                                         0.5451
                                            0.1225
                                                     0.2128
                                                              0.5247
                                                                       0.2184
                                                                                0.2301
                          0.1670
                 0.1967
                                   0.5315
```

```
NACAL 292
               RUN 80
                             DATE 17 OCT 80
                                                 TIME 03.47
                                                                RECOMP. NO. 1
                                                                                    DISK 1
                                                                                                  PAGE 24
JOB NO. 11
                  LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                 ACO DATE 19 AUG 80 21.47
 MOD 72 ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
                          CMU=2, AUGMENTOR 2
DATA POINT 12
                                                           -0.0596
                                                       0.5357
                                                                -0.0525
                                                      -0.9869
                                                                 0.2411
           -0.0291 -0.0176 0.2450 0.1361
                                                       -1.0961
                                                                 0.0868
        -0.0729
                                        -2.9124
    -0.2384
                                                                               -1.4258
                                                                                           0.5512
  -0.5486
                                          -3.6216
-0.3665
                                                                             -3.0170
  0.0645
                                             0.2171
                                                                            -2.0243
    0.3932
                                                                                              0.5367
        0.5935
              0.6113 0.6097 0.6008
                                                                                0.0467
                                     0.6090
                                              -0.3645
                                                                                                0.5217
                                                                                      0.4071
                                        0.6023
                                                 -0.0727
                                                                                                  0.5249
                                                                                           0.4912
                                           0.5994
                                                    0.2232
       0.3564
                0.1392
```

0.5235

0.1874

0.1868

0.5346

0.1571

0.1039

IVCVF	292 RI	JN 81	DATE 17 C	CT 80	TIME 03.58	RECOMP	. NO. 1	nisk	1	PAGE 22
IOB NO	. 11	LDGR ACCT	31302 C	ONTRACT 1	631 SUB	ACCT 10001		ACO DATE	19 AUG 8	0 22.37
MOD 73	3 ALPHA W		, C/B=60 DEG MU=4, AUGMEN		EG, AFT⊏22	DEG, MEAN=3	8 DEG.	P _T S 14.56	^P A 14.287	
				S	UMMARY PAGE		•	2.00		
חיא די	ALPHA H PHI	О Н THETA	CLH THRUST	C DH D EL A L	CMH N:FT	Ү <u>м</u> . ТНТН	RI. CMUTH	PTPFCH CDR	PTPCBH CDHR	РТРАСН
1	2.2840 1.3000	5.4281 -60.5172	4.4685 378.2858	-2 •5264 2 •2502	0.8610 8.2123	6735.7745 273.5022	8934.8503 3.7114	1.9649 1.2412	1.5627 -3.7677	
2	-1.9785 1.2000	5.6092 -55.1083	3.8148 354.1694	-2 •6604 1 • 9400	0.7019 8.1973	6675.9251 272.9200	8287.4684 3.5839	1.9655 1.2195	1.4575 -3.8800	
ž	-6.1764 1.3000	5.6915 -48.0989	3.1545 327.4903	-2.8305 1.6207	0.5476 8.1897	6636.0501 272.8762	7478.1505 3.5315	1.9670 1.2102	1.9572 -4.9497	
4	-10.3219 1.3000	5.6222 -39.9093	2•5697 305•7149	-3.0723 1.3320	0.3713 8.1965	6825.7785 273.5345	6655.1082 3.5837	1.9620 1.2201		
5	2.2535 1.3000	5.5139 -61.5934	4,4601 379,5794	-2.4122 2.2612	0.8517 8.1874	6620.8759 273.4445	9004.1161 3.6528	1.9649 1.2315	1.5622 -3.6437	
6	5.3935 1.3000	5.3942 -66.8591	5.1115 407.0875	-2 •1 845 2 • 5820	1.0240 8.1983	6654.9251 274.0781	9717.3995 3.7425	1.9648 1.2473	1.9617	

8.1848

1.3026

8,1714

1.4819

-1.8413

-1.4989

-1.0780

3.1863

2.9076

5.7335

6.2412

6.5737

436.0597

462.7898

7

8

O

10

10.5507

1.3000

14.7038

1.3000

18.8970

23.1129

1.3000

1.3000

5.3337

5.3108

5.1373

-72.1954

-76.4950

-81.2124 492,1541 3.5755 8.1689 273.7939 3.9256 1.2765 -2-3545 5.0976 7.4351 -0.6266 1.5933 7009.9743 12330.6043 1.9629 1.9613 1.9641 516.3758 3.8633 8.1672 273.9582 1.2821 -1.9087 -85.1826 3.9586

273.7420

273.4055

6698.3503 10446.6830

6796.9891 11071.6102

6854.2283 11815.9606

3.7803

3.7920

1.9623

1.2533

1.9622

1.2549

1.9645

1.5612

1.4592

1.9614

-3.0946

-2.7538

1.9404

1.9600

```
DATE 17 DCT 80
NACAL 292
              RUN 81
                                               TIME 03.55
                                                               RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 10
JOB NO. 11
                 LDGR ACCT 31302
                                    CONTRACT 1631
                                                       SUB ACCT 10001
                                                                                ACQ DATE 19 AUG 80 22.32
         ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MCAN=38 DEG,
MOD 73
                         CMU=4. AUGMENTOR 2
DATA POINT 5
                                                           0.0530
                                                       0.2771
                                                               -0.1265
                                                       0.2747
                                                                0.1020
            0.1743 0.1842 0.2089 - 0.0984
                                                       -1.5052 -0.0689
        0.1335
                                        -3.5838
                                                                              -1.8922
                                                                                          0.3187
   -0.0151
  0.0271
                                          -4.3051
                                                                            -3.6944
0.1780
  0.2952
                                            -0.0145
                                                                           -2.5606
                                                                                             0.2909
    0.3155
        0.3099
              0.3070 0.3010 0.3006
                                                                               -0.3023
                                     0.3104
                                              -0.7491
                                                                                                0.2784
                                                                                     0.1095
                                        0.3056 -0.4633
                                                                                                  0.2064
                                                                                           0.2106
                                           0.2982
                                                   -0.1287
```

0.0605

0.0395

0.2596

0.0061

0.0173

0.2794

0.0185

1

0.0111

```
ĩ
```

```
NACAL 292
               RUN 81
                             DATE 17 OCT 80
                                                 TIME 03.56
                                                                 RECOMP. NO. 1
                                                                                      DISK 1
                                                                                                    PAGE 14
JOB NO. 11
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                   ACQ DATE 19 AUG 80 22.34
          ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG,
MOD 73
                          CMU=4, AUGMENTOR 2
DATA POINT 7
                                                             -0.0076
                                                         0.2784
                                                                 -0.1430
                                                        0.2767
                                                                   0.0757
             0.1421 0.1508 0.1642 - 0.1160
                                                        -1.5115 -0.0792
         0.0568
                                         -3.6118
                                                                                 -1.8800
                                                                                             0.3149
    -0.1986
 -0.1895
                                           -4.2826
                                                                               -3.6507
-0.0194
   0.1983
                                              0.0389
                                                                              -2.5606
                                                                                                0.2878
     0.3014
         0.3155
                                                                                  -0.2518
               0.3136 0.3095 0.3016
                                      0.3098
                                               -0.7523
                                                                                                   0.2779
408
                                                                                        0.1192
                                         0.3073
                                                  -0.4516
                                                                                                     0.2790
                                                                                              0.2094
                                            0.3048
                                                     -0.1233
```

0.2707 - 0.0042 - 0.0145

0.2695

0.0086 -0.0042

0.2695

0.1526

0.0370

```
NACAL 292
               RUN 81
                             DATE 17 NCT 80
                                                TIME 03.57
                                                                RECOMP. NO. 1
                                                                                    DISK 1
                                                                                                  PAGE 16
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACO DATE 19 AUG 80 22.34
         ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MFAN=38 DEG,
 MOD 73
                         ChU=4, AUGMENTOR 2
DATA POINT 8
                                                           -0.0434
                                                       0.2725
                                                                -0.1494
                                                       0.2725
                                                                 0.0658
            0.1174 0.1242 0.1780 -0.1197
                                                       -1.5194 -0.0837
        0.0302
                                        -3.6142
                                                                               -1.8788
   -0.3111
                                                                                           0.3112
  -0.3177
                                          -4.3142
                                                                             -3.6033
-0.1324
  0.1251
                                            -0.0182
                                                                            -2.5399
    0.2624
                                                                                              0.2827
        0.3140
              0.3099 0.3078 0.3020
                                                                               -0.2842
                                     0.3071
                                              -0.7483
                                                                                                0.2730
                                                                                     0.1147
                                        0.3028
                                                 -0.4502
                                                                                                  0.2778
                                                                                           0.2035
                                           0.3056
                                                    -0.1219
       0.1631
                0.0185 -0.0078
                                  0.2664 -0.0243 -0.0218 0.2732 -0.0024 -0.0255
                                                                                       0.2738
```

OF POWE QUALITY

```
MACAL 292
              RUN 81 DATE 17 DCT 80
                                              TIME 03.57
                                                            RECOMP. NO. 1
                                                                               DISK 1
                                                                                            PAGE 20
JGB NO. 11
                 LDGR ACCT 31302
                                   CONTRACT 1631
                                                     SUB ACCT 10001
                                                                            ACO DATE 19 AUG 80 22.36
 MOD 73
         ALPHA WIND ON RUN, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MFAN=38 DEG.
                        CPU=4, AUGMENTOR 2
DATA POINT 10
                                                        -0.0113
                                                    0.2753
                                                            -0.1785
                                                    0.2720
                                                           0.0683
           0.0074 0.0055 0.1372 -0.0893
                                                    -1.5286 -0.0846
       -0.0279
                                      -3 .4234
   -0.2473
                                                                          -1.8332
                                                                                     0.3673
  -0.4241
                                       -4.1629
-0.3001
                                                                        -3.5389
 -0.0202
                                         -0.0644
                                                                       -2.4986
    0.1885
                                                                                        0.2791
        0.3014
             0.3092 0.3084 0.3013
 410
                                                                           -0.2676
                                   0.3070
                                           -0.7245
                                                                                          0.2700
                                                                                0.1232
                                      0.3025
                                              -0.4106
                                                                                            0.2717
                                                                                      0.2116
                                        0.3068 -0.0931
               0.0166 -0.0522 0.2670 -0.0060 -0.0382 0.2695 -0.0224 -0.0407
       0.1965
```

RECOMP. NO. DISK 1 PAGE 22 DATE 24 OCT 69 TIME 05.29 2 CAL 292 RUN 84 1B NO. 11 CONTRACT **SUB ACCT 10001** ACO DATE 20 AUG 80 17.53 LDGR ACCT 31302 1631 10D 75 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, $\mathbf{P}_{\mathbf{A}}$ MEAN=38 DEG. CMU=0 14.238 14.75 SUMMARY PAGE NO ALPHA H 0 H CLH CDH CMH YM RL PTPFCH PTPCBH PTPACH THTH CMUTH CDR COHR PHI THETA THR UST DELAL WFT 10.3504 -497.1126 0.9979 1 0.2638 0.5293 0.3078 0.0994 2011.1577 0.9922 1.0002 0.0058 1.1600 59.8176 86.0530 0.3499 0.4233 0.8235 0.0357 0.2721 -566.9399 0.9886 0.9964 2 10.7362 0.3363 0.2753 -0.0005 1449.2694 0.9973 -3.6499 1.1600 50.6909 63.354 0.2176 0.1427 0.4093 0.0028 0.0118 0.2635 3 11.0477 0.2581 -0.0991 -551.1802 787.0804 0.9902 0.9986 0.9091 -7.6678 0.1523 30.5394 44.9553 0.0919 0.5162 0.0072 0.0422 0.2159 1.1600 1.0851 411 -11.769110.6622 -0.1418 0.2702 -0.2130 -465,6229 -611.2509 0.9889 0.9970 0.9978 1.1600 -27.7023 0.0119 0.2583 44.1838 -0.10620.1428 0.4171 0.0028 5 0.2339 10.6277 0.5265 0.2856 0.0946 -517.0743 1990.0396 0.9902 0.9968 0.9782 1.1600 61.1874 86.7030 0.1494 0.0022 0.0124 0.2771 0.3479 0.3228 4.3004 10.6699 0.7065 -441.2551 2624,5816 0.9929 0.9981 0.9997 6 0.3334 0.1954 64.7381 1.1600 113.1712 0.4721 0.5127 0.0068 0.0427 0.2906 0.9961 7 8.2471 10.6037 0.8739 0.3531 0.2974 -328.2793 3021.2962 0.9931 0.9966 0.9992 1.1600 67.9939 135.6902 0,5876 0.1559 0.3731 0.0025 0.0130 0.3401 8 12.2771 10.6934 1.0367 0.3798 0.9965 0.3721 -298.1592 3499.7485 0.9986 1.0009 70.2531 0.8720 1.1600 159.9212 0.7001 0.5113 0.0060 0.0425 0.3296

0.4473

0.2326

0.4252

0.5042

-208.0866

-125.9578

0.4820

0.9505

4121.9704

4282.2322

0.0034

0.0066

0.9961

0.0197

0.9973

0.0423

0.9977

0.4107

0.9980

0.5182

0.9989

0.9985

9

10

16.2323

20.0835

1.1600

1.1600

10.2364

69.7884

10.5339

63.5731

1.1693

1.1278

174.8549

180.1178

0.4304

0.7949

0.5605

0.7763

<u>*</u>~**

h my.	NACAL JOB NO. MOD 75 DATA PO	11 ALPHA		.DGR	ACCT RUN,	DATE 31302 AUGMENTANES	Cr Tor 2,	NTRACT	1631	05_25 \$UB ≈WD≃46 [RECOMP. NO. 10001 AFT=30 DEG,		NISK DATE		PAGE 2 3 80 17,41
		2.W1 I									0 20					
											0.38					
										0.509		0.4688	•			
		0.	4763	0.	5025	0.5237				0.507	0	0.4859				
	0.4	0.4632		•	2023	V • 5251	0.50	087 0.484	4	0.43	51	0.4720				
	0.487												0.45	76	0.4663	3
	0.563							0 .46					0.5249			
	0.4	0.5096		ı n	. 6 29 n	0.531		0,	5268				0.4464		0.4	647
	10			- 0		0.531	.4 0.5	516	0.4268				0.47	99		
							(0.5513	0.44	86				0.497	8	0.4663
								0.53	75 0	•4862					0.495	0.4731
	0	•5000	0.52	74	0.5	162 0,	•4962	0.51	74 0.9	5243 c	•506	2 0.5043	0.5093	0.51	193	

NACAL 292 RUN 84 DATE 24 NCT 80 TIME 05.28 RECOMP. NO. 2 DISK 1 PAGE 14 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUG 80 17.50 MOD 75 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MFAN=38 DEG, CMU=0 DATA POINT 7 0.3949 0.5181 0.4746 0.5181 0.4941 0.4538 0.4937 0.5287 0.5162 0.4607 0.4688 0.4171 0.5075 0.4763 0.4714 0.2705 0.3329 0.4381 0.5611 0.4775 0.5937 0.5467 0.4520 0.4805 0.5687 0.5602 0.5604 0.5533 0.5483 413 0.4873 0.5650 0.4638 0.4794 0.5048 0.5693 0.4657 0.4802 0.5085 0.5599 0.4913 0.4944 0.4944 0.5187 0.5062 0.5181 0.5305 0.5149 0.5137 0.5156 0.5137

```
MACAL 292
               RUN 84
                             DATE 24 OCT 80
                                                 TIME 05.28
                                                                  RECOMP. NO. 2
                                                                                      DISK 1
                                                                                                    PAGE 16
JOB NO. 11
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                   ACQ DATE 20 AUG 80 17.50
MOD 75 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                          MEAN=38 DEG, CMU=0
DATA POINT 8
                                                             0.3719
                                                        0.5163
                                                                  0.4657
                                                        0.5139
                                                                  0.4867
            0.4326 0.4351 0.5287 0.5087
                                                         0.4459
                                                                  0.4681
        0.4158
                                          0.5000
                                                                                 0.4813
                                                                                             0.4460
    0.3036
  0.3142
                                            0.4919
                                                                               0.5099
0.4470
  0.5769
                                              0.5486
                                                                              0.4613
                                                                                               0.4805
    0.5866
        0.5725
              0.5676 0.5576 0.5485
                                                                                  0.4851
414
                                      0.5687
                                                0.4597
                                                                                                  0.4766
                                                                                       0.4934
                                         0.5746
                                                   0.4737
                                                                                                    0.4688
                                                                                             0.5039
                                           0.5533
                                                      0.4860
                0.4738
       0.4688
                         0.4813
                                  0.5075
                                           0.4975
                                                    0.5218
                                                              0.5137
                                                                       0.5075
                                                                                0.5131
                                                                                         0.5274
```

```
NACAL 292
                RUN 84
                             DATE 24 NCT 80
                                                 TIME 05.29
                                                                 RECOMP. NO. 2
                                                                                     DISK 1
 JOB NO. 11
                                                                                                   PAGE 20
                   LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                  ACQ DATE 20 AUG 80 17.52
 MOD 75 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                          MEAN=38 DEG, CMU=0
DATA POINT 10
                                                             0.4641
                                                        0.5064
                                                                  0.4739
                                                        0.5047
                                                                 0.4840
             0.4358 0.4551 0.5218 0.4626
                                                        0.4566
         0.4258
                                                                  0.4769
                                          0.4651
     0.2431
                                                                                0.4451
                                                                                           0.4658
   0.2281
                                            0.4401
 0.3690
                                                                              0.4676
   0.5366
                                             0.5486
     0.5903
                                                                             0.4725
                                                                                              0.4620
         0.5798
              0.5712 0.5613 0.5505
                                                                                 0.4640
                                     0.5604
                                               0.4527
                                                                                                0.4653
                                        0.5681
                                                                                      0.4689
                                                  0.4620
                                                                                                  0.4644
                                                                                           0.4731
                                           0.5399
                                                     0.4675
       0.4395
                0.4638
                         0.4750
                                  0.5087
                                           0.4532
                                                    0.4819
                                                            0.5199
                                                                     0.4551
                                                                              0.4657
                                                                                       0.5193
```

ICAL 292	RUN 85	DATE 24	OCT 80	TIME	05.43	RECOMP. NO.	2	DISK	1	PAGE 22
18 NO. 11	LDGR ACCT	31302	CONTRACT	1631	SUB ACCT	10001		ACO DATE	20 AUG	80 18.20
100 76 ALPHA		AUGMENTOR EAN=38 DEG,		DEG, F	WD=46 DEG,	AFT=30 DEG;		P _{TS}		

SUMMARY PAGE

	NO	ALPHA H PHI	Q H THETA	CLH THRUST	CDH Delal	CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
	1	1.7380	10.3566	2.7403	-0.0294	0.4103	1187.1355	9948.4881	1.3997	1.3966	1.4058
i e		1.1600	-89.3838	385.2242	1.7349	5.3904	129.7762	0.9230	0.4563	-0.4857	
	2	-2.4057	10.4447	2.3473	-0.1909	0.2867	1230.4461	8773.0078	1.4017	1.3094	1.4010
		1.1600	-85.3485	333.5493	1.4780	5.4138	130.4770	0.9201	0.4566	-0.6476	
	3	-5.5629	10.4924	2.0560	-0.2781	0.1919	1289.6560	7930.7805	1.4023	1.3990	1.4019
		1.1600	-82.2954	295.5384	1.2931	5.4132	130.4959	0.9161	0.4555	-0.7337	
	4	-10.7030	10.6778	1.5366	-0.4225	0.0313	1467.2337	6245.6742	1.4051	1.4000	1.3995
		1.1600	-74.6263	231.0251	0.9667	5.3594	130.2990	0.8988	0.4507	-0.8732	
	5	1.6434	10.3857	2.7047	-0.0361	0.4072	1119.4758	9985.9113	1.4009	1.3971	1.3999
		1.1600	-89.2334	381.3976	1.7129	5.3675	129.2372	0.9165	0.4543	-0.4965	
	6	5.7538	10.2898	3.0328	0.1259	0.5226	1089.1309	11098.2125	1.3981	1.3951	1.3997
		1.1600	87.6216	428,1652	1.9339	5.3757	129.2546	0.9163	0.4550	-0.3290	
	7	9.8693	10.3453	3.3534	0.3111	0.6259	1097.3001	12163.8582	1.4008	1.3947	1.4004
		1.1600	84.6989	473.0107	2.1574	5.3542	129.9725	0.9254	0.4577	-0.1466	
	8	13.8728	10.4577	3.6646	0.5350	0.7377	1149.9099	13408.2302	1.4005	1.3960	1.4018
		1.1600	81.6939	525.8051	2.3871	5.4012	130.1864	0.9169	0.4560	0.0789	
	Ģ	17.9196	10.1753	3.9854	0.7584	0.8409	1220.8316	14170.3976	1.3983	1.3941	1.4004
		1.1600	79.2353	560.9691	2.6278	5.3716	129.2418	0.9355	0.4598	0.2985	
1	0	22.0993	10.0195	4.2603	0.9844	0.9138	1562.1660	14853.7814	1.3998	1.3947	1.4038
		1.1600	76.9892	594.7912	2.8419	5.3696	129.4421	0.9516	0.4634	0.5209	

```
NACAL 292
              RUN 85
                            DATE 24 OCT 80
                                              TIME 05.39
                                                               RECOMP. NO. 2
                                                                                   DISK 1
                                                                                                 PAGE 2
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACO DATE 20 AUG 80 18.06
MOD 76 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=1
DATA POINT 1
                                                           0.0047
                                                       0.5275
                                                                0.1029
                                                      0.5285
                                                                0.2395
            0.4234 0.4384 0.5114 0.3904
                                                       0.2412
                                                                0.0682
        0.3542
                                       -0.9110
    0.1534
                                                                              -0.1649
                                                                                          0.4409
  0.2656
                                         -0.3420
                                                                            -0.0343
0.4609
  0.5980
                                            0.5999
                                                                           -0.0085
    0.5900
                                                                                            0.4885
        0.5729
              0.5767 0.5749 0.5680
                                                                                0.3990
                                    0.5701
                                              0.3121
                                                                                               0.5156
                                                                                    0.5114
                                       0.5788
                                                 0.3518
                                                                                                 0.5253
                                                                                          0.5310
                                          0.5814
                                                    0.4295
       0.4615
               0.3947
                        0.4178
                                 0.5232
                                          0.4141
                                                   0.4110
                                                           0.5201
                                                                    0.4503
                                                                             0.4290
                                                                                      0.5114
```

```
MACAL 292
              RUN 85
                            DATE 24 OCT 80
                                               TIME 05.41
                                                               RECOMP. NO. 2
                                                                                   DISK 1
                                                                                                PAGE 14
JOB NO. 11
                 LDGR ACCT 31302
                                    CONTRACT 1631
                                                       SUB ACCT 10001
                                                                               ACO DATE 20 AUG 80 18.16
MOD 76 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=1
DATA POINT 7
                                                           0.1438
                                                      0.5282
                                                                0.2501
                                                      0.5295
                                                                0.3136
            0.3636 0.4053 0.4727 0.3642
                                                      0.2806
                                                                0.2099
        0.2713
                                       -0.8773
                                                                              -0.1514
                                                                                         0.3105
   -0.1170
 -0.0772
                                         -0.3004
                                                                           -0.0919
0.1939
  0.4632
                                            0.6074
                                                                           -0.1201
                                                                                            6.4944
    0.5957
        0.6036
              0.6002 0.5911 0.5752
                                                                               0.4082
                                    0.5834
                                              0.3330
                                                                                               0.4245
                                                                                    0.5136
                                       0.5865
                                                 0.3535
                                                                                                 0.5210
                                                                                          0.5290
                                          0.5918 0.4362
       0.4484
                0.3835
                        0.4004
                                 0.5226
                                          0.3916
                                                   0.4097
                                                           0.5369
                                                                    0.4203
                                                                             0.4116 0.5263
```

```
NACAL 292
               RUN 85
                             DATE 24 DCT 80
                                                TIME 05.42
                                                                RECOMP. NO. 2
                                                                                   DISK 1
                                                                                                 PAGE 16
JOB NO. 11
                  LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                              ACO DATE 20 AUG 80 18.17
__ MOD 76 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                          MEAN=38 DEG, CMU=1
DATA POINT 8
                                                           -0.0882
                                                                 0.1583
                                                       0.5275
                                                       0.5302
                                                                 0.2483
             0.3392 0.3056 0.4241 0.3997
                                                        0.2571
                                                                 0.1403
         0.3024
                                        -0.4806
                                                                              -0.1410
                                                                                          0.3380
     0.0324
  -0.0919
                                          -0.1765
                                                                             0.0249
 0.097
   0.4034
                                             0.6093
                                                                           -0.0435
                                                                                             0.4649
     0.5672
         0.6039
               0.6026 0.5972 0.5803
                                                                                0.4358
                                     0.5911
                                               0.3286
                                                                                                0.4909
                                                                                     0.5244
                                        0.5914
                                                  0.3726
                                                                                                 0.5077
                                                                                           0.5332
                                           0.5911
                                                     0.4677
        0.4428
                0.3523
                         0.3143
                                  0.5220
                                           0.3804
                                                    0.3910
                                                            0.5270
                                                                     0.4290
                                                                              0.3904
                                                                                       0.5151
```

```
DISK 1
                                                                                                    PAGE 20
                                                                 RECOMP. NO. 2
                                                 TIME 05.42
                             DATE 24 OCT 80
NACAL 292
              RUN 85
                                                                                  ACO DATE 20 AUG 80 18.19
                                                         SUB ACCT 10001
                                      CONTRACT 1631
                  LDGR ACCT 31302
JOB MO. 11
MOD 76 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                          MEAN=38 DEG, CMU=1
DATA POINT 10
                                                              0.1386
                                                        0.5211
                                                                   0.2711
                                                         0.5242
                                                                   0.3193
                                                                   0.2027
             0.2426 0.1808 0.3480 0.3405
                                                         0.2392
                                                                                 -0.1121
                                                                                             0. 2365
                                         -0.6020
         0.1690
    -0.0012
                                                                               -0.0465
                                           -0.1551
  -0.3102
-0.1551
                                                                                                0.6400
                                                                              -0.0257
                                              0.5987
   0.1914
     0.4692
         0.5903
                                                                                   0.4544
               0.5940 0.5955 0.5814
                                                                                                   6.41.41
                                                 0.3447
                                      0.5888
                                                                                        0.5273
                                          0.5877
                                                    0.3963
                                                                                                     9.5056
                                                                                              0.5248
                                                       0.4743
                                             0.5945
                                                                                          0.5114
                                                                                 0.3629
                                                      0.3579
                                                               0,5320
                                                                        0.3816
                 0.2251
                          0.2257
                                    0.5270
                                             0.3480
        0.2519
```

_

ACAL	292 RU	N 86	DATE 24	OCT 80 T	IME 05.59	RECOMP	P. NO. 2	nisk	1 F	AGE 22
08 NO	. 11	LDGR ACCT	31302	CONTRACT 16	31 SUB	ACCT 10001	L	ACO DATE	20 AUG 80	18.51
MOD 7	7 ALPHA WI	•	AUGMENTOR EAN=38 DEG	2. C/B=60 DE CMU=2	G, FWD=46 E	DEG, AFT=30	DEG,	P _T S	A 4.238	
				SU	MMARY PAGE					
T NO	ALPHA H PHI	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	YM THTH	RL CMUTH	PTPFCH COR	PTPCBH CDHR	PTPACH
1	2.2337 1.1600	10.5907 -79.2382	3.6653 536.4446	-0.6966 2.1324	0.5217 8.1287	4764.4822 266.9090	13770.3267 1.8563	1.9277 0.6814	1.9195 -1.3780	1.9329
2	-2.0267 1.1600	10.6141 -74.0632	3.2193 482.4410	-0.91 92 1.8634	0.3849 8.1257	4855.9694 267.0163	12479.0590 1.8530	1.9291 0.6809	1.9215 -1.6002	1.9256
3	-6.2339 1.1600	10.5868 -67.1520	2.7115 422.8984	-1.1424 1.5649	0.2408 8.1353	5027.1869 267.6951	11042.6987 1.8625	1.9304 0.6831	1.9222 -1.8256	1.9305
4	-10.2394 1.1600	10.4630 -58.8601	2.2349 370.9059	-1.3503 1.2892	0.0909 8.1282	5342.4340 267.7101	9462.0610 1.8846	1.9323 0.6870	1.9228 -2.0373	1.9320
5	2.1402 1.1600	10.4285 -78.8827	3.6959 533.2714	-0.7262 2.1432	0.5266 8.1241	4777.5196 267.6232	13734.8169 1.8902	1.9317 0.6878	1.9220 -1.4141	1.9321
6	6.2454 1.1600	10.2703 -83.3076	4.1407 586.9742	-0.4858 2.4161	0.6592 8.1009	4679.5787 267.1110	15013.5728 1.8972	1.9317 0.6884	1.9225 -1.1742	1.9328
7	14.5962 1.1600	9.6983 88.6725	5.1421 691.1900	0.1191 3.0501	0.9447 8.1035	4635.9299 267.4419	17512.2834 1.9901	1.9303 0.7053	1.9228 -0.5861	1.9326
8 .	14.5661 1.1600	9.8133 88.5980	5.1905 691.7189	0.1270 3.0753	0.9539 8.1232	4635.9743 268.7320	17500.4408 2.0171	1.9361 0.7108	1.9249 -0.5838	1.9367
9	18.6694 1.1600	9.8226 85.0654	5•5305 740•2544	0.4774 3.3309	1.0562 8.0956	4686.1171 267.9508	18670.5590 2.0093	1.9322 0.7087	1.9253 -0.2312	1.9320
10	22.8679 1.1600	9.8154 81.6720	5.8660 790.0105	0 • 65 66 3 •5 987	1.1512 8.0967	4870.2716 268.3785	19869.5629 2.0140	1.9332 0.7097	1.9282 0.1489	1.9283

NACAL 292 RUN 86 DATE 24 OCT 80 TIME 05.57 RECOMP. NO. 2 DISK 1 PAGE 10 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUG 80 18.43 MOD 77 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=2 DATA POINT 5 -0.2127 0.5364 0.0241 0.5368 0.1381 0.4057 0.4275 0.4631 0.3284 0.1399 -0.0077 0.3035 -1.9790-0.5802 0.4429 0.0623 0.1739-0.7352-1.4680 0.4076 0.5910 0.5759 -1,1102 0.5599 0.6143 0.5944 0.5967 0.5872 0.5763 0.2602 422 0.5810 0.2500 0.5133 0.4768 0.5901 0.2528 0.5302 0.5295 0.5924 0.2906

0.3795

0.5198

0.3870

0.3733

0.4232

0.3409

0.3166

0.5298

0.3763

İ

```
12
```

```
NACAL 292
              RUN 86
                                               TIME 05.58
                            DATE 24 OCT 80
                                                               RECOMP. NO. 2
                                                                                  DISK 1
                                                                                                PAGE 14
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                       SUB ACCT 10001
                                                                           ACO DATE 20 AUG 80 18.45
MOD 77 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=2
DATA POINT 7
                                                          -0.4118
                                                      0.5218
                                                               -0.1324
                                                      0.5222
                                                               -0.0521
            0.2599 0.2206 0.3933 0.3347
                                                      0.1122 -0.2121
        0.2374
                                       -1.8172
                                                                             -0.5502
                                                                                         0.3.56
   -0.3688
 -0.2824
                                         -0.6506
                                                                           -1.4030
-0.0355
  0.3225
                                            0.5884
                                                                          -0.9876
                                                                                            0.2914
    0.5439
        0.5997
              0.5944 0.5892 0.5761
                                                                               0.3036
                                    0.5787
                                              0.2148
                                                                                               0.4474
 423
                                                                                    0.4848
                                       0.5855
                                                 0.2267
                                                                                                 0.5201
                                                                                          0.5147
                                          0.5938
                                                    0.3190
       0.3982
                0.2773
                         0.2256
                                 0.5316
                                          0.3284
                                                   0.3272
                                                            0.5160
                                                                    0.3328
                                                                             0.3135
                                                                                      0.5210
```

...

NACAL 292 RUN R	86 DATE 24 DCT 80	TIME 05.59	RECOMP. NO.	2 DISK 1	1 PAGE 20
JOB NO. 11 LDG	GR ACCT 31302 CONTRAC	CT 1631 SUB AC	CCT 10001	ACQ DATE :	20 AUG 80 18.40
MOD 77 ALPHA WIND O	ON RUN, AUGMENTOR 2. C/8= MFAN=38 DEG, CMU=2	:60 DEG, FWD±46 DEC	;, AFT=30 DEG,		
DATA POINT 10					
		0.	•1952		
		0.5274	0.1679		
		0.5274	0.1992		
0.0610 -0.1176	υ.0897 0.3010 0.3465 -1.71	0.1139 7180	9 0.0121	-0.417?	0.5319
-0.4785 -0.3547	-0	0.6880		-0.9913	
0.0729 0.3987 0.5898		0.5933	-	-0.8737	0.5170
	0.5966 0.5844 0.5866	0.2405		0.2782	0.5665
424	0.590	0.3190		0.5020	
	0	.6001 0.3381			0.5725 0.5401
0.1639 0.152	27 0.0966 0.5223 0.	.3409 0.3G23 0.	•5223 0·3023	9.3023 0.52	260

N	NACAL	2	992	RUN	87		DATE	24	пст	80	TIME	07.42	ı	RECOMP	NO.	2	DISK	1	PAGE 2	2
•			- / -	1447.4			3.412	- '			• • • • • • • • • • • • • • • • • • • •		•		•	_		_		_
J	IOB NO) .	11	Ĺ	DGR.	ACCT	31302		CON.	TRACT	1631	SUB	ACCT	10001			ACG DATE	20 AUG	80 19.2	6
18	MOD 7	78	ALPHA	MINE	ON		AUGMEN EAN=38				DEG ,	FWD=46	DEG,	AF1=30	DEG,		$^{\mathtt{P}}\mathtt{_{T}}_{\mathtt{S}}$	$\mathbf{P}_{\mathbf{A}}$		
1							CHII-20	171.0	, 6110	J-4							14.77	14.233		
											SUMMA	RY PAGE								
F	пи т		ALPHA PHI			H HETA	CL THR	H UST		C DH D EL AI		CMH WFT		YM HTHT	(RL CMUTH	PTPFCH CDR	PTPCB CDHF		vch
	1		2.22	93	10.	6514	3.6	961	•	-0,6643	3	0.5304	4736	.4123	13977	.4507	1.9331	1.524	7 1.9	259
			1.16			8102	543.0	426		2.154	D	8.1259		•6223		.8507	0.6801	-1.344	2	
	2		-2.16	94	10.	7672	3,1	841	•	-0.9136	5	0.3774	4883	•4458	12542	2952	1.9318	1.529	9 1.9	351
	•.		1.16			9902	484.2			1.845		8.1456		•4525		.8364	0.6779	-1.501		• •
	3		-6.32	70	10.	7347	2.7	005	-	-1.114	l	0.2354	5021	.3641	11111	.0944	1.9338	1.00	2 1.9	გიი
			1.16	.no -	67.	0083	425.7	450		1.562	2	8.1185	267	.5014	1	.8355	0.6770	-1.791	1.5	
	4 £	42	-10.44	95	10.	4414	2.2	631	•	-1.346	0	0.0962	5322	•5245	9543	•4192	1.9279	1.426	8 1.9	340
÷	į	5	1.16	00 -	59.	2575	373.2	645		1.304	7.	8.1286	268	.0786	1	.8911	0.6882	-2.034	2.	
	5		1.97	33	10.	4250	3.6	975		-0.729	o	0.5217	4802	.9606	13756	.1023	1.9332	1.524	4 1.9	304
			1.16	00 -	·78 •	8462	533.3	874		2.143	6	8.1286	268	.1366	1	8945	0.6887	-1.417	i7	
	6		6.08 1.16			4465 5503	4.1 590.4	371 841	•	-0.4670 2.417		0.6563 8.1191		.7558 .8622		.8838 .8887	1.9307 0.6874	1.423		313
	7		10.40	78	10.	1694	4.6	867	•	-0.1703	3	0.8055	4600	. 4635	16488	•4093	1.9320	1.925	n 1.9	337
-			1.16	00 -	87.	9179	647.4	901		2.757	8	8.1387	268	.9457	1	•9480	0.6989	-0.869	13	
	8		14.38	75	9.	9546	5.0	904		0.1026	5	0.9302	4666	.1919	17505	.0393	1.9379	1.925	2 1.9	343
	ı		1.16	00	88.	8446	688.0	909		3.021	0	8.1290	268	•9696	1	•9902	0.7062	-0.603	15	
	9		18.52 1.16			7599 2324	5.5 735.8	341 196		0.461 3.3280		1.0530 8.1057		.8612 .2671		.2794 .0246	1.9332 0.7115	1.425		341
	10		22.85 1.16			6164 7678	5.9 786.4	617 233		0.8625		1.1674 8.1238		.1279 .4096		.2834 .0636	1.9379 0.7192	1.929 0.143		294

MACAL 292 **RUM 87** DATE 24 OCT 80 TIME 07.40 RECOMP. NO. 2 DISK 1 PAGE 10 JOB MO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUG 80 19.20 MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG. CMU=4 DATA PUINT 5 -0.235% 0.5341 0.0102 0.5348 0.1350 0.4018 0.4273 0.4640 0.3234 0.1401 0.0255 0.3253 -1.9532-0.5919 0.4370 0.0827 0.1717 -0.7057 -1.5190 0.4093 0.5850 0.5785 -1.1325 0.5060 0.6116 0.5964 0.5924 0.5851 0.5801 0.2986 426 0.5773 0.2525 0.5474 0.4774 0.5881 0.2424 0.5369 0.5212 0.5890 0.2954 0.4161 0.3546 0.3595 0.5259 0.3720 0.3981 0.5443 0.3850 0.3726

NACAL 292 RUN 87 DATE 24 DCT 80 TIME 07.40 RECOMP. NO. 2 DISK 1 PAGE 14 "JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 20 AUG 80 19.2? MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/8=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=4 DATA POINT 7 -0.36100.5323 -0.0292 0.5278 0.1057 0.3322 0.3776 0.4217 0.2836 0.1250 -0.0497 0.2021 -1.9470-0.6041 0.4469 -0.2421 -0.2189-0.7264 -1.3869 0.0485 0.4065 0.5723 -1.0163 0.5796 0.5011 0.6088 0.6025 0.5936 0.5799 0.2857 427 0.5867 0.2409 0.5030 0.4831 0.5878 0.2452 0.5278 0.5235 0.5905 0.3138 0.4304 0.3259 0.2874

0.3657

0.5287

0.3589

0.5200

0.3471

0.5275

NACAL 292 **RUN 87** RECOMP. NO. 2 DATE 24 OCT 80 TIME 07.41 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUG 80 19.23 MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=4 B TRIOG ATAG -0.2461 0.5200 -0.1147 0.5189 0.0734 0.2252 0.2301 0.3956 0.3141 0.1281 - 0.08750.1984 -1.5489 -0.5338 6.3871 0.0174 -0.1987-0.5809 -1.2328-0.0837 0.3277 0.5760 -1.00220.4885 0.5358 0.6020 0.5911 0.5865 0.5749 0.3149 0.5747 0.2381 0.4922 0.4814 0.5812 0.2395 0.5203 0.5278 0.5850 0.3281 0.3850 0.2737 0.2513 0.5194 0.3415 0.5325 0.3303 0.3060 0.3241 0.5306

NACAL 292 RUN 87 DATE 24 DCT 80 TIME 07.42 RECOMP. NO. 2 DISK 1 PAGE 20 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 20 AUG 80 19.25 MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=4 DATA POINT 10 -0.1252 0.5171 0.0691 0.5128 0.1390 0.1325 0.0895 0.2998 0.2955 0.0927 -0.0544 0.0814 -1.7501 -0.1045-0.5185 0.4208 -0.4831 -0.6824 -0.3846 -1.1857 0.0746 0.5686 0.3868 -0.9123 0.4827 0.5787 0.5871 0.5839 0.5749 0.2793 429 0.5808 0.2275 0.4814 0.4785 0.5785 0.3061 0.5099 0.5238 0.5813 0.3232 0.1455 0.1505 0.1244 0.5045 0.3172 0.3216 0.5287 0.2905 0.3042 0.5250

.

RUN 88 DATE 20 OCT 80 TIME 02.44 RECOMP. NO. 1 DISK 1 PAGE 22 NACAL 292 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUS 80 20.58 MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=4 14.228 14.50 SUMMARY PAGE PT NO ALPHA H N H CLH CDH CMH YM RL PTPFCH PTPCBH **PTPACH** PHI THETA THRUST DELAL WFT . THIH CMUTH CDR COHR -5.7517 6.3033 1 4.0683 -2.5369 0.4860 6395.9212 10106.1043 1.9614 1.9556 1.9639 1.1600 -58.0532 410.2856 -5.6436 8 = 1428 269.3439 3.1475 0.8882 - 3.42522 -9.3952 6.5317 3.5056 -2.5949 0.3523 6416.3179 9445.3936 1.9664 1.9596 1.9662 1.1600 -53.4907 386.7630 -5.2843 8.1955 271,3017 3.0595 0.8776 - 3.47253 -12.97816.5297 3.0061 -2.71860.2258 6420.9173 8657.3208 1.9633 1.9542 1.9622 1.1600 -47.8744 359.3060 -4.9742 8.1716 269.9869 3.0455 0.8747 - 3.5934-16.6287 6.5806 2.4340 -2.8287 0.0900 6568.6407 7768.7923 1,9683 1.5567 1.9645 1.1600 -40.7109 333,3929 -4.7550 8,1739 270.3850 3.0265 0.8716 - 3.70035 -5.9400 6.6902 3.9226 0.4733 -2.36236331.1427 10242.3247 1.9603 1.9529 1.9613 1.1600 -58.9421 415.9081 -5.7268 8.1625 269.7623 2.9700 0.8638 -3.2262 6 -2.6156 6.6750 4.4440 -2.2072 0.5930 6289.7224 11116.0413 1.9639 1.9618 1.9667 1.1600 -63.5882 449.6589 -6.2346 8.1934 271.5458 2.9965 0.8685 -3.0757

3.9307 6,9468 5.0940 -1.76140.7768 6294.8051 12619.7125 1.9664 1.9593 1.9662 -7.3341 1.1600 -70.9257 508.3334 8.1725 271.2164 2.8757 0.8502 - 2.6116

6296.2322 11879.4665

6294.9163 13266.4350

2.8768

271.2402

0.6778

8.1807

0.8505

1.1600 -74.2095 533,8350 -7.9898 8.1757 271.8513 0.8465 - 2.35862.8472 10 10.4910 6.6663 5.8701 -1.38940.9290 6405.9940 13446.7322 1.9665 1.9592 1.9680 1.1600 -76.6833 -545.9427 -8.5163 8.1439 270.9915 2.9943 0.8670 -2.2564

7

8

9

0.7641

1.1600

7.1471

6.9448

7.0329

-67.3454

4.5837

5.3827

478.5170

-1.9548

-6.7468

-1.5120

1.9626

1.9672

1.9600

1.9602

0.8506 -2.8055

1.9673

```
MACAL 292
              RUN 88
                          DATE 20 OCT 80
                                             TIME 02.40
                                                           RECOMP. NO. 1
JOB NO. 11
                                                                             DISK 1
                LOGR ACCT 31302
                                                                                          PAGE 2
                                  CONTRACT 1631
                                                    SUB ACCT 10001
MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                                                                         ACO DATE 20 AUG 80 20.44
DATA POINT 1
                                                      -0.1143
                                                  0,2630
                                                           -0.0946
                                                  0.2659
                                                           0.0315
           0.1531 0.1742 0.2035 0.0778
                                                  -0.1680 -0.0196
        0.1058
                                    -2.2934
   -0.0320
                                                                        -0.7728
  0.0535
                                                                                   0.2238
                                      -1.1950
0.1805
                                                                      -1.9611
  0.2866
                                         0.2507
    0.3017
                                                                     -i.7169
       0.2926
                                                                                     0.2508
             0.2954 0.2937 0.2885
                                 0.2785 -0.0528
                                                                         -0.0517
                                                                                        0.2514
                                    0.2857
                                            -0.0557
                                                                              0.1890
                                                                                          0.2536
                                      0.2919
                                              -0.0186
                                                                                   0.2353
      0.1985
              0.1207
                      0.1182
                              0.2689 0.1244
                                              0.1020
```

0.1238

0.2577

```
8
```

```
NACAL 292
                             DATE 20 OCT 80
               RUN 88
                                                 TIME 02,43
                                                                 RECOMP. NO. 1
                                                                                      DISK 1
                                                                                                    PAGE 14
JOB NO. 11
                 LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                  ACQ DATE 20 AUG 80 20.54
MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                          MEAN=38 DEG, CMU=4
DATA POINT 7
                                                            -0.1809
                                                        0.2731
                                                                 -0.0946
                                                        0.2765
                                                                  0.0290
            0.1033 0.1493 0.2097 0.0690
                                                        -0.1509
                                                                 -0.0830
         0.0460
                                         -2.2897
                                                                                -0.7740
                                                                                            0.2271
   -0.2257
 -0.1835
                                           -1.1607
                                                                              -1.8999
0.0000
   0.1918
                                              0.3112
                                                                             -1.6270
                                                                                               0.2567
    0.3005
         0.3138
               0.3154 0.3132 0.3078
                                                                                 -0.0209
                                      0.2988
                                               -0.0314
  432
                                                                                                   0.2579
                                                                                       0.2012
                                         0.2972
                                                  -0.0407
                                                                                                     0.2665
                                                                                             0.2459
                                            0.3083
                                                      0.0063
       0.2147
                0.1070
                         0.1213
                                   0.2875
                                            0.1170
                                                     0.1108
                                                              0.2807
                                                                       0.1238
                                                                                0.0840
                                                                                         0.2763
```

NACAL 292 RUN 88 DATE 20 OCT 80 TIME 02.43 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 20 AUG 80 20.55 MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=4 DATA POINT B -0.1690 0.2734 -0.0899 0.2782 0.0378 0.0491 0.0610 0.1911 0.0902 -0.1485 -0.0711 0.0666 -2.2291 -0.1566-0.7544 0.2202 -0.1890-1.0922 -0.0666 -1.8516 0.1458 0.3193 -1.5750 0.2749 0.2550 0.3120 0.3160 0.3169 0.3118 -0.0116 0.3000 -0.0244 0.2591 0.2110 0.3028 -0.0221 0.2666 0.2510 0.3115 0.0147 0.2085 0.0915 0.0722 0.2850 0.1164 0.0971 0.2807 0.1176 0.0740 0.2726

ŧ

```
NACAL 292
               RUN RR
                            DATE 20 NCT 80 TIME 02.44
                                                             RECOMP. NO. 1
                                                                               DISK 1
                                                                                            PAGE 20
 JOB NO. 11
                  LDGR ACCT 31302
                                    CONTRACT 1631
                                                      SUB ACCT 10001
                                                                           ACO DATE 20 AUG 80 20.57
MOD 78 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=4
 DATA POINT 10
                                                        -0.1755
                                                     0.2556
                                                             -0.0948
                                                    0.2608
                                                            0.0488
            -0.0532 -0.0330 0.1282 0.1014
        -0.0722
                                                    -0.1735 -0.0916
                                       -2,1630
    -0.2410
                                                                          -0.7777
                                                                                      0.1969
   -0.3579
                                        -1.1644
 -0.2778
                                                                        -1.8901
   -0.0287 ·
                                           0.2981
     0.1793
                                                                       -1.6178
                                                                                        0.2342
         0.2829
              0.2951 0.2969 0.2914
                                                                           -0.0299
                                   0.2828
                                            -0.0537
                                                                                           0.2367
                                                                                0.1981
                                      0.2874 -0.0401
                                                                                            0.2428
                                                                                      0.2325
                                         0.2963
                                                 -0.0013
       0.1462 0.0174 -0.0232 0.2676 0.1070
                                                 0.0722
                                                         0.2583
                                                                 0.0877
                                                                          0.0429
                                                                                  0.2502
```

ACAL	292	RUN	89	DATE	20 061	80	TIME	02.55	RECOM	P. NO. 1	DISK	1	PAGE 22
OB NO	. 11	ι	DGR AC	CT 31302	. CON	IT RA CT	1631	SUB	ACCT 1000	ı	ACO DATE	20 AUG 8	0 21.43
MOD 7	79 ALPHA	WINE	ON RL	N, AUGMENTI IN BE=NA3M			DEG,	FWD=46	DEG,AFT=30	DEG •	5	^P A 4.228	
							SUMMA	RY PAGE					
T NO	ALPHA PH]	Н	R H THET	CLH THRU	ST .	CDH DELAL	-	CMH WFT	YM , THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.271 1.16		10.442 53.670			0 ₃ 45 77 0 ₄ 2 82 3		0.0936 0.2858	-523.1899 0.9087	1693.1498 0.0092		0.9948 0.4231	
2	-3.70: 1.16		10.582			0.4156		0.0062 0.2858	-576.5242 0.9395	1458.7308 0.0094		0.9946 0.3852	
3	-7.69! 1.16		10.560 44.265			0.3646 0.1562		0.0909 0.2139	-535.8907 0.6149	1051.8174 0.0061	0.9841 0.0257	0.9953 0.3388	
4	-11.566 1.160		10.723 29.416	= -		0.3470		0.1875 0.2362	-513.4036 0.8700	613.9515 0.0086		0.9971 0.3187	
5	0.23	52	10.286	50 0.61	4 5	0.4506	5	0.0818	-520.4365	1668.7113	0.9869	0.9947	0.9956

0.1586

0.2089

0.2213

0.1940

0.3121

0.3271

0.3788

0.4570

0.4037

0.2317

1.0617

0.5854

0.5238

0.9437

0.9900

0.5458

-465.2584

-373.5353

-317.0928

-229.6999

-107.5665

0.0108

0.0059

0.0053

0.0097

0.0102

0.0056

1991.1461

2045.7822

2140.5556

2337.8607

2167.5132

0.0409

0.9905

0.0253

0.9917

0.0235

0.9927

0.0400

0.9963

0.0559

0.9960

0.0284

0.4096

0.9960

0.5009

0.9954

0.5200

0.9948

0.5240

0.9965

0.5356

0.9968

0.5814

0.9985

0.9984

0.9975

0.9997

0.9968

0.2785

0.5263

0.3534

0.5435

0.3897

0.5641

0.4346

0.5915

0.4733

0.6099

0.4731

1.1600

4.1890

1.1600

8.0672

1.1600

11.9017

15.7944

19.7634

1,1600

1.1600

. 1.1600

6

7

8

9

10

53.7511

10.4146

55.6714

10.3925

57.2859

10.2508

59.0091

10.2460

59.8536

10.2030

59.0583

74.5108

0.7707

0.8462

0.9391

1.0185

1.0174

105.7250

113.6148

113.9383

98.4053

91.5086

i

```
RECOMP. NO. 1 DISK 1
                                                                                             PAGE 2
                                          TIME 92.51
                           DATE 20 OCT 80
              RUN 89
NACAL 292
                                                     SUB ACCT 10001 ACO DATE 20 AUG 80 21.30
                LDGR ACCT 31302
                                   CONTRACT 1631
JOB NO. 11
MOD 79 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                        MFAN=38 DEG, CMU=0
DATA POINT 1
                                                   0.3883
                                              0.5056
                                                       0.4721
                                              0.5101
                                                        0.4948
                                               0.4389
                                                        0.4670
                       0.4905
                0.4998
                                                                       0.4506
                                                                                 0.4644
                            0.4307
             0.4699
            0.5067
                                                                     0.5017
                              0.4531
           0.5863
            0.5511
                                                                                    0.4645
                                                                    0.4556
                                0.5428
             0.5368
                0.5388 0.5508
                                                                        0.4799
                             0.5528
                                    0.4215
                                                                                       0.4629
                                                                            0.4836
                                0.5531
                                        0.4458
                                                                                         0.4764
                                                                                  0.4818
                                   0.5519 0.4839
```

0.4973

0.3834

0.4880

0.4979

0.4892

0.5135

0.4836

0.5011 0.4724

```
NACAL 292
              RUN 89
                           DATE 20 DCT 80
                                             TIME 02.53
                                                             RECOMP. NO. 1
                                                                               DISK 1
                                                                                             PAGE 14
JOB NO. 11
                 LDGR ACCT 31302
                                   CONTRACT 1631 SUB ACCT 10001
                                                                        ACO DATE 20 AUG 80 21.40
MOD 79 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                        MEAN=38 DEG, CMU=0
DATA POINT 7
                                                  0.3841
                                              0.5073
                                                       0.4619
                                              0.5044
                                                       0.4884
               0.4799 0.4730
                                               0.4587
                                                       0.4570
             0.4301
                            0.4612
                                                                      0.4811
                                                                                0.4728
            0.4208
           0.5565
                              0.4867
                                                                    0.5390
            0.5877
             0.5623
                               0.5390
                                                                   0.4425
                                                                                   0.4685
               0.5522 0.5546
                             0.5582
                                     0.4587
                                                                       0.4793
                                                                                      0.4629
                               0.5586
                                        0.4538
                                                                            0.4971
                                                                                        0.4753
                                  0.5453 0.4736
                                                                                 0.4907
```

0.4718

0.4954

0.4917

0.4818

0.4923

0.5172

0.4774

3

0.4755

NACAL 292 **RUN 89** DATE 20 OCT 80 TIME 02.54 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 20 AUG 80 21.41 MOD 79 ALPHA WIND UN RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MFAN=38 DEG, CMU=0 DATA POINT 8 0.3844 0.5019 0.4636 0.5050 0.4853 0.4575 0.4681 0.4558 0.4575 0.3915 0.4618 0.4818 0.4673 0.3610 0.5135 0.4749 0.5378 0.5845 0.5703 0.5403 0.4494 0.4629 0.5619 0.5579 0.5576 0.4555 0.4796 0.4670 0.5611 0.4598 0.4928 0.4753 0.5442 0.4778 0.4911 0.4481 0.4232 0.4699 0.5048 0.4656 0.4755 0.4998 0.4600 0.4656 0.4874

NACAL 292 RUN 89 DATE 20 NCT 80 TIME 02.54 RECOMP. NO. 1 DISK 1 PAGE 20 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUG 80 21.42 MOD 79 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MFAN=36 DEG, CMU=0 DATA POINT 10 0.4383 0.5045 0.4619 0.5031 0.4881 0.4388 0.4376 0.4575 U.4644 0.4432 0.4481 0.4102 0.4581 0.4593 0.4830 0.4500 0.5689 0.4699 0.5782 0.5428 0.5683 0.5625 0.4581 0.4639 0.5600 0.4624 0.4667 0.4602 0.5672 0.4639 0.4738 Q. 5408 0.4662 0.4715 0.4788 0.4531 0.4556 0.4239 0.4836 0.4450 0.4525 0.4880 0.4376 0.4351 0.4824

ICAL	292 R	UN 90	DATE 20	nct an	TIME 03.05	DECOM	P. NO. 1	DISK	1 0	AGE 22
10,9 €	2.92 K	ON 90	DAIL 20	001 00	THE OSTOS	NE COPH	* * ***********************************	DISK	f L	AGI. ZZ
iB NO	. 11	LDGR ACCT	31302	CONTRACT	1631 SUE	ACCT 1000	l		20 AUG 80	22.03
400 7	9 ALPHA W		AUGMENTOR EAN=38 DEG		DEG, FWD=46	DEG, AFT=30	DEG,	^P T _S 15.00	P _A 14.228	
					SUMMARY PAGE					
ר אם	ALPHA H	ρн	CLH	CDH	СМН	YM	RL	PTPFCH	РТРСВН	РТРАСН
	PHI	THETA	THRUST	DELAL	WFT	тнтн	CMUTH	CDR	CDHR	
1	0.2873	15.1495	0.6524	0.4651	0.0832	-746.0516	2540.8449	0.9849	0.9948	0.9963
	1.1600	54.5116	114.2827	0.2966	0.2189	0.7520	0.0052	0.0218	0.4433	
2	-3.6813	15.2122	0.5085	0.4157	0.0146	-811.1154	2179.1909	0.9802	0.9935	0.9933
	1.1600	50.7367	94.0717	0.22 83	0.4584	1.8485	0.0129	0.0456	0.3700	
3	-7.6123	15.3600	0.3518	9.3677	-0.0756	-836.3863	1661.7987	0.9797	0.9955	0.9048
	1.1600	43.7350	73.5891	0.1545	0.2662	1.0849	0.0075	0.0264	0.3413	
4,	-11.5437	15.4078	0.2036	0.3394	-0.1861	-791.6702	1010.8779	0.9797	0.9956	0.9948
440	1.1600	30.9629	57.4175	0.0850	0.1515	0.5288	0.0037	0.0150	0.3244	
5	0.3271		0.6456	0.4662	-	-825.1970	2605.6279	0.9849	0.9954	0.9957
	1.1600	54.1663	115.0015	0.2933	0.1204	0.4428	0.0030	0.0119	0.4542	
6	4.1649	14.9914	0.•7637	0.5152	0.1796	-711.9624	2895.5004	0.9848	0.9934	0.9953
	1.1600	55.9962	130.0201	0.34 99	0.4531	1.6742	0.0118	0.0455	0.4697	
7	8.1266		0.8547	0.5484		-570.0980	3039.9266		0.9937	0.9978
	1.1600	57.3128	142.9675	0.3939	0.4993	1.6515	0.0117	0.0502	0.4982	
8	11.9446		0.9284	0.5387		-478.7330			0.9943	0.9982
	1.1600	59.8727	152.1460	. 0.4291	0.4484	1.3348	0.0094	0.0449	0.4938	
9	15,8230		1.0144	0.5774		-363.2191	3425.3705		0.5949	0.9994
	1.1600	60.3520	163.9525	0.4711	0.1391	0.4205	0.0029	0.0140	0.5634	
10	19.6646		0.9582	0.5776		-56.7635			0.9944	0.9941
	1.1600	58.9182	157.9622	0 • 44 4 0	. 0.4625	1.4940	0.0105	0.0464	0.5311	

```
PAGE 2
                           DATE 20 OCT 80
                                              TIME 03.02
                                                              RECOMP. NO. 1
                                                                                  DISK 1
              RUN 90
NACAL 292
                                                      SUB ACCT 10001
                                                                              ACQ DATE 20 AUG 80 21.51
                                    CONTRACT 1631
                 LDGR ACCT 31302
JOB NO. 11
MOD 79 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MFAN=38 DEG. CMU=0
DATA POINT 1
                                                    0.5681
                                                        0.6902
                                               0.7458
                                                        0.7216
                                               0.7443
                0.7262 0.7231
                                                0.6397
                                                         0.6833
                                                                        0.6825
                                                                                  0.6819
                             0.6725
             0.6931
            0.7486
                                                                      0.7436
           0.8609
                               0.6769
            0.7986
                                                                     0.6625
                                                                                      0.6873
                                0.8035
             0.7897
                0.7899 0.7959
                                                                         0.7053
                              0.8085
                                      0.6154
                                                                                         0.6885
                                                                              0.7121
                                 0.8133
                                         0.6599
                                                                                           0.6931
                                                                                    0.7093
                                    8008
                                            0.7139
                                                   0.7131 0.7511
                                                                  0.7125
                                                                             0.7100
                                                                                    0.7393
        0.5764 0.7274 0.7318 0.7468 0.7305
```

1 13 00

DISK 1 PAGE 14 RECOMP. NO. 1 TIME 03.04 DATE 20 DCT 80 NACAL 292 **RUN 90** ACQ DATE 20 AUG 80 22.00 SUB ACCT 10001 CONTRACT 1631 LDGR ACCT 31302 JOB NO. 11 MOD 79 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG. CMU=0 DATA POINT 7 0.5516 0.7530 0.6998 0.7299 0.7555 0.6790 0.6699 0.6994 0.7405 0.7399 0.6982 0.7187 0.6226 0.6357 0.8048 0.7112 0.8266 0.8656 0.6944 0.6488 0.8248 0.8408 442 0.8274 0.8177 0.6987 0.6760 0.8230 0.6958 0.7381 0.8324 0.6825 0.7002 0.7386

0.8100

0.7567

0.7143

0.6600

0.7000

0.6982

0.7355

0.7281

0.7611

0.7305

0.7218

```
NACAL 292
            RUN 90
                         DATE 20 OCT 80 TIME 03.04
                                                         RECOMP. NO. 1
                                                                           DISK 1
                                                                                      PAGE 16
            LDGR ACCT 31302
                                 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 20 AUG 80 22.01
JOB NO. 11
MOD 79 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                       MEAN=38 DEG. CMU=0
DATA POINT 8
                                               0.5376
                                           0.7495
                                                    0.6988
                                           0.7492
                                                    0.7238
              0.6831 0.7218
                                                    0.6779
                                            0.6859
            0.5883
                          0.6925
                                                                  0.7324
                                                                            0.6938
           0.5683
          0.7798
                          0.7106
                                                                0.8210
           0.8602
                              0.8347
                                                               0.6700
            0.8479
                                                                              0.6941
              0.8342 0.8256
                                   0.6779
                           0.8227
                                                                   0.7130
                                                                                 0.6955
                             0.8345 0.6921
                                                                       0.7363
                                                                                   0.6973
                                0.8099
                                        0.7161
                                                                            0.7269
       0.6825
                      0.6875 0.7592 0.7006 0.7081
              0.6363
                                                      0.7636
                                                              0.6800
                                                                      0.7068
                                                                              0.7549
```

NACAL		RUN 90	DATE	20 OCT 8	O TIME	03.05	RECOMP.	. NO. 1	D	ISK 1	PAGE 20
JOB NO). 11	LDGR	ACCT 31302	CONTRA	ACT 1631	SUB AC	CT 10001		ACQ I	DATE 20 AUG	
P00 7	79 ALPHA 1	WIND ON	RUN, AUGMEN MEAN=38	TOR 1, C/E DEG, CMU=	B=60 DEG, F	WD=46 DEG	,AFT=30 D	DEG,			, ww EE 103
DATA P	POINT 10										
						0.6636					
					0.742	0.68	17				
					0.741	7 0.72	07				
		0.6563 6557 6494	0.6813 0.65	88	0.67	20 0.68	14	0.693	3 7 0	0.6804	
444	0.76		0.	6669				0.6813			
Ŧ	0.	8451 0.8435	0.8287	0.8329			,	0.6962		0.6851	
			0.82	273 0.68	68		•	0.69	10		
			,	a suma						0.684	7
			(0.8439 0	•6885				0.6947		
				0.7994	0.6890				ı	0.69 0.6941	905
	0.6981	8336.0	0.6444	0.7567	0.6582 0.	.6563 0.	7561 0.	-6488	0.6438	0.7412	

									•	-				1			
CAL	292	RUN	91		DATE	20	OCT	80	TIME	03.37	7 R	LECOMP	• NO •	1	DISK	1	PAGE 22
B NO.	11		LDGR	ACCT	31302		CONT	RACT	1631	SUE	3 ACCT	10001	•		ACQ DATE	20 AUG 8	0 22.23
00 80	ALPHA	WIN	D ON		AUGMEN EAN=38				DEG,	FWD=46	DEG,AF	T=30	DEG .		P _T S 15.00	P _A	
									SUMMA	RY PAGE	•				13.00	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ND	ALPHA	H		Н	CL		•	CDH		CMH		YM		RL	PTPFCH	PTPCBH	PTPACH
	PHI		Th	HETA	THR	UST		DELA	L	WFT	Γ.	нтн	(HTUM	CDR	CDHR	
1	1.05	n 1	15.0	0866	2.4	272		0.100	7	0.1305	985.	9708	9467	6928	1.3785	1.3762	1.3854
•	1.16		87.6		345.0			1.099		5.3733		1391		8881	0.5382	-0.4375	
2	-2.84		15.1		2.2			0.016		0.0732		8925	9095		1.3680	1.3671	
	1.16	00	89.5	5769	324.4	752		.026	9	5.2996	122.	8374	0 ,	8613	0.5295	-0.5127	•
3	-6.84	8.5	14.9	3896	2.1	660	***	0.130	1	0.0396	653.	5060	8580.	4665	1.3779	1.3725	1.3785
	1.16		-86		306.2			970		5.3485		9521		8854	0.5374	-0.6675	
									_								
4	-10.82		15.1		1.8			0.254		-0.0306		0891	7426		1.3771	1.3722	
445	1.16	00	-82.2	2256	267.9	400	I	0.831	8	5.3539	125	0498	0	8776	0.5354	-0.7897	,
5 5	1.12	35	14.8	3441	2.3	958		0.070	1	0.1446	1033.	8914	9322	4507	1.3799	1.3747	1.3767
	1.16			3234	334.9			1.083		5.3429		9580		8941	0.5396	-0.4695	
*																_	
6	5.01			9634	2.5			0.168		0.2080	1303		9605		1.3802	1.3758	
	1.16	00	86.	1784	353.9	640		1.147	3	5.3628	125	5798	0.	8974	0.5415	-0.3729)
7	8.94	74	14.	7361	2.6	971		0.273	2	0.3042	1497	2615	9698	5984	1.3781	1.3757	1.3797
-	1.16			2161	376.0			1.232		5.3616		5451		9049	0.5438	-0.2706	
_																	
8	12.82			0369		102		0.348		0.3407	1983			8877	1.3804	1.3747	
	1.16	00	82.9	9276	400 • 8	692	-	1.289	2	5.3371	124	9705	0	8828	0.5359	-0.1872	
9	16.75	69	15.	1091	2.9	475		0.472	9	0.4108	2298	7878	10076	8503	1.3808	1.3757	1.3813
	1.16			8833	424.6			1.362		5.3639		8183		8845	0.5374	-0.0644	
						.		.	_								
10	20.75		15.1			785		0.648		0.4696			10005		1.3781	1.3781	
	1.16	UU	€8 •)	10,44	449.2	644		1 •439	2	5.3295	125	0685	O.	8758	0.5329	0.1155	•

```
NACAL 292 RUN 91
                          DATE 20 OCT 80 TIME 03.33
                                                           RECOMP. NO. 1
                                                                              DISK 1
                                                                                           PAGE 2
JOB NO. 11
                LDGR ACCT 31302
                                  CONTRACT 1631
                                                    SUB ACCT 10001
                                                                       ACO DATE 20 AUG 80 22.09
MOD 80 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                       MEAN=38 DEG, CMU=1
DATA POINT 1
                                                 0.2777
                                             0.7608
                                                      0.5169
                                             0.7578
                                                      0.6482
               0.6132 0.5789
                                             0.5129
                                                      0.5680
            0.5254
                          -0.7263
                                                                    0.1232
                                                                              0.4963
           0.5384
          0.7918
                            -0.1168
                                                                   0.0908
          0.8524
            0.8364
                               0.8640
                                                                  0.0199
                                                                                 0.6006
               0.8329 0.8323
                            0.8349
                                    0.5739
                                                                     0.6132
                                                                                    0.6459
                               0.8358 0.5780
                                                                          0.7321
                                                                                      0.6532
                                 0.9338 0.6441
                                                                               0.7143
      0.8765
              0.5789
                       0.6076 0.7607 0.5901
                                                0.5833
                                                        0.7595
                                                                0.5914 0.5883
```

	NACA	L	292	į	RUN	91		DATE	20	OCT	80	TIME	03.3	5	RECOMP	. NO.	1		DISK	1	PAI	GE 14
•	JOB 1	٠00	11		L	DGR	ACCT	31302		CON	TRACT	1631	SU	B ACC	Г 10001	L		ACO	DATE	20 AU	3 80 <i>;</i>	22•20
	MOD	80	ALP	HA 1	MIND	ON	RUN, ME	AUGMEN AN=38	TOR DEG	1, CM	C/B=60 U=1	O DEG, F	WD=46	DEG,	AFT=30	DEG,	٠					
	DATA	PO	INT	7																		
• •			•										0.473	4								
												0.748	32	0 .6287	7			٠				
												0.748	31	0.6995	5							
-					0.! 3878 2876	5 204 B	0.5	223 -0.64	19			0.53	15	0 "6309)	0	.128	8	0.46	57		
	4		(0.62	268 3 271			-0.0)434	+						-0.1	884					
	447				8609		8.0		86	40						-0.07	95		0	.6134		
								0.83	886	0.	5834					(0.620	7				
								,		2.0	0 53									0.635	3 ~	
									.84	•50	0.57	91						0.732	23			
									C	. 833	34 0	•6356							0.70	0.6 083	552	
			0.493	0	0.4	781	0.9	5577	0.7	470	0.5	497 0	。5497	0.7	532 (0.5565	5 0	-5602	2 0.	7545		

NACAL 292 RUN 91 DATE 20 OCT 80 TIME 03.36 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 20 AUG 80 22.21 ... MOD 80 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MFAN=38 DEG + CMU=1 DATA POINT 8 0.4882 0.7556 0 +6376 0.7588 0.7020 0.3654 0.5210 0.5544 0.6492 0.3872 -0,4718 0.1425 0.5725 0.1606 0.5403 0.0124 -0.1487 0.7911 448 0.8658 0.8678 -0.0465 0.6221 0.8653 0.8535 0.8490 0.6015 0.6370 0.6548 0.8538 0.6029 0.7439 0.6764 0.8486 0.6584 0.7313 0.3915 0.3822 0.4413 0.7570 0.4930 0.5167 0.7595 0.5696 0.5553 0.7482

```
NACAL 292
             RUN 91 DATE 20 OCT 80 TIME 03.36
                                                           RECOMP. NO. 1
                                                                         DISK 1
                                                                                          PAGE 20
JOB NO. 11
                LDGR ACCT 31302
                                  CONTRACT 1631
                                                    SUB ACCT 10001
                                                                         ACO DATE 20 AUG 80 22.22
MOD 80 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                       MFAN=38 DEG, CMU=1
DATA POINT 10
                                                 0.6006
                                            0.7673
                                                     0.6164
                                            0.7673
                                                     0.7143
               0.2197 0.3150
                                            0.5642
                                                     0.6452
            0.2116
                          -0.2661
           0.1948
                                                                   0.1954
                                                                             0.4720
           0.4077
                           0.2066
                                                                -0.0330
           0.6873
            0.8632
                              0.8715
               0.8702 0.8639
                                                                0.0423
                                                                               0.6616
                           0.8609
                                   0.6399
                                                                    0.6834
                                                                                  0,6489
                              0.8633
                                      0.6719
                                                                        0.7836
                                0.8633 0.7224
                                                                                    0.7011
                                                                              0.7618
      0.3199
              0.2178
                       0.2340
                               0.7644
                                      0.3318
                                               0,4905
                                                       0.7694
                                                               0.5621
                                                                       0.5602 0.7607
```

CAL	292	RUN	92		DATE	20	OCT 80	TIME	03.47	7 RECOMP	P. NO. 1	DISK	1	PAGE 22
B NO	0. 11		LDGR	ACCT	31302		CONTRACT	1631	SUE	3 ACCT 10001	L	ACO DATE	20 AUG 8	0 23.00
0D 8	B1 ALPHA	WIN	D ON				l, C/B=60 , CMU=2			DEG,AFT=30	DEG,	P _T S 15.00	P _A 14.228	
								SUMMA	RY PAGE				•	
NO	ALPHA PHI	Н	Q TH	H HETA		LH RUST	C DH D EL A		CMH WFT	MY H T H∏∵	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	РТРАСН
1	1.800 1.160		15.1 -85.0		4.6 580.	053 7 4016	-0.348 1.739		0.3576 8.1650	3441 _* 8917 263 _* 2235	15038.5944 1.8453			
2	-2.628 1.160		15.6 -79.4		3. 515.	4412 9288	-0 •641 1 •465		0.2605 8.1553	3717.2273 263.0155	13722.6928 1.7845			
3	-6.685 1.160	าก	15.(-73.!		3. 447.	0338 7794	-0.898 1.282		0.1647 8.1677	39 <i>7</i> 7.2706 264.3229	12137.2381 1.8676	1.9064 0.8201		
4	5 1.160	L 5 10	15.2 -66.8		2. 386.	4762 7168			0.0517 8.1427	4102.9153 263.1173	10476.6259 1.8319			
5	1.500 1.160		15.1 -83.8		3. 572.	9852 3982	-0.431 1.702		0.3748 8.1362	3561.7130 263.0475	14982.1023 1.8421			
6	5.416 1.160		15.2 -87.3		4. 614.	2640 1242	-0 .1 98 1 .83 9		0.4181 8.1431	3772.5408 263.6259	16093.7598 1.8324			
7	9.512 1.160		15.1 89.1		4. 655.	5913 1632	0.071 2.003		0.4762 8.1400	3920.8769 263.5238	17014.4172 1.8469			
8	13.495 1.160		15.1 86.9	1310 9552	4. 686.	8104 1797			0.5201 8.1272	4326.1623 263.5001	17583.2164 1.8498			
9	17.453 1.160		14.9 83.9		5. 720.	1024 6275			0.5976 8.1088	4563.1141 262.9492	18347.3306 1.8722			
0	21.407 1.166		14.9 81.9	9440 9012	5. 731.	1467 3558			0.5681 8.0885	5010.6446 262.6125	18257.3582 1.8666			

ž

```
0
```

```
NACAL 292
              RUN 92
                            DATE 20 NCT 80
                                               TIME 03.45
                                                               RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 10
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                       SUB ACCT 10001
                                                                                ACQ DATE 20 AUG 80 22.55
MOD 81 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=2
DATA POINT 5
                                                   -0.2114
                                               0.7855
                                                         0.0479
                                               0.7809
                                                         0.3682
                0.4630 0.3989
                                                0.2864
                                                         0.1093
             0.3248
                            -2.0248
                                                                        -0.3554
                                                                                    0.5640
            0.2601
           0.6577
                             -0.7426
                                                                      -0.4447
            0.8800
             0.8854
                                0.8563
                                                                     -0.4490
                                                                                      0.7059
                0.8783 0.8786
 451
                             0.8738
                                      0.4188
                                                                         0.5397
                                                                                         0.7626
                                0.8794
                                         0.4319
                                                                               0.7433
                                                                                           0.7818
                                   0.8686
                                            0.5694
                                                                                    0.7870
       0.4518
               0.4032
                        0.4468
                                 0.7772
```

0.4748

0.7785

0.4735

0.4891 0.7934

```
8
```

```
NACAL 292
              RUN 92
                            DATE 20 OCT 80
                                               TIME 03.45
                                                               RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                 PAGE 14
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACQ DATE 20 AUG 80 22.57
MOD 81 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=2
DATA POINT 7
                                                     0.0797
                                                0.7915
                                                         0.5411
                                               0.7921
                                                         0.5109
                0.1854 0.3783
                                                0.3425
                                                         0.3754
             0.1792
                            -1.7862
                                                                        -0.2422
                                                                                    0.2764
           -0.1296
           0.3802
                             -0.6704
                                                                      -0.9488
            0.7648
             0.8943
                                 0.8662
                                                                     -0.6839
                                                                                       0.6221
                0.8940 0.8875
                             0.8872
                                      0.4700
                                                                          0.5471
                                                                                          0.6324
                                0.8907
                                         0.4425
                                                                               0.7566
                                                                                           0.7039
                                   0.8874
                                            0.5708
                                                                                     0.7717
       0.2277
               0.2638
                        0.2850
                                 0.7847
```

0.3802

0.7816

0.4406 - 0.4306

```
NACAL 292
              RUN 92
                            DATE 20 OCT 80
                                               TIME 03.46
                                                               RECOMP. NO. 1
                                                                                   DISK 1
                                                                                                PAGE 18
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                       SUB ACCT 10001
                                                                                ACQ DATE 20 AUG 80 22.58
 MOD 81 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                         MEAN=38 DEG, CMU=2
DATA POINT 8
                                                    0.3165
                                               0.7946
                                                         0.3909
                                               0.7923
                                                         0.5115
                0.1163 0.3074
                                               0.3551
                                                         0.5729
             0.1362
                            -1.4706
                                                                        -0.2911
                                                                                   0.3153
           -0.2349
           0.3148
                             -0.5591
                                                                      -0.8062
            0.6740
             0.8972
                                 0.8762
                                                                     -0.7035
                                                                                      0.5884
                0.8995 0.8961
                              0.9009
                                      0.4695
                                                                         0.5549
                                                                                         0.6566
                                0.9043
                                         0.4685
                                                                              0.7568
                                                                                           0.7505
                                   0.8969
                                            0.5995
                                                                                    0.7615
       0.2227
               0.1593
                        0.1518
                                 0.7766
                                          0.3099
                                                   0.3547
                                                           0.7816
                                                                    0.4182
                                                                             0.4256
```

ŧ

MACAL 292 JOB NO. 11 MOD 81 A DATA POINT	LPHA WIND (GR ACCT 313 DN RUN, AUG	ATE 20 00 BO2 CO SMENTOR 1, BOEG, C	ONTRACT	1631	SHR	ACCT	RECOMP. 10001 FT≃30 DE			DISK 1 DATE 20 /	PAGE 20 AUG 80 23.00
					(2560						
					0.7917	7 0.	4488					
					0.7909	0.	5443					
•	~0•0899	19 0.0280 -1.	.3091		0.183	4 0.	2210					
	-0.1107 0.0622	-	-0.3107						-0:2	446	0.2568	
4	0.5497 0.8468		0.8973					-(0.6888	8		
454	0.901	0.9098	0.0973					-0.	5420		0.6771	
		0	• 9033 0	. 4791					0.6	5167		
-			0.9062	0.5476						0.781	0.62 4	221
• -				16 0.64	4 22						0.7717	7239
-0.03	54 -0. 038	5 -0.1046	0.7909	0.0304	0.2	956	0.795	3 0.3	603	0.3709	0.8046	

VACAL 2	292 R	.UN 93	DATE 20	OCT 80	TIME 03.59	RECOMF	. NO. 1	DISK	1	PAGE 22
10B NO.	11	LDGR, ACCT	31302	CONTRACT	1631 SUB	ACCT 1000	l.	ACQ DATE	20 AUG 8	0 23.21
MOD 82	ALPHA W		AUGMENTOR EAN=38 DEG		DEG, FWD≖46	GEG,AFT≖30	DEG.	P _T S 14.62 14	A 4.228	
					SUMMARY PAGE		•			
ОИ Т'	ALPHA H	O H THETA	CLH THRUST	CDH DELAL	CMH WFT	. Үм . тнтн	RL CMUTH	PTPFCH CDR	PTPC8H CDHR	PTPACH
1	2.1768 1.1600	7.7011 -71.9840	5.6900 433.7855			5581.4497 270.5237	10970.2795 3.7314		7,9449 -3,0145	1.9510
2	-1.9492 1.1600	7.8131 -66.5165	5.0002 400.5968	-2.1724 1.9082		5623.0590 269.8369	10135.5924 3.6686	1.9549 1.1528	1.9423 -3.3252	
3	-6.1648 1.1600	7.9986 -60.0725	4.2378 368.2002			5690.2287 270.7669	9282.3228 3.5958		1.9457 -3.5819	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-10.2347 1.1600	7.7514 -51.4492	3.5875 334.7432	-2.8588 1.3670	•	5986.5236 270.2837	8174.1348 3.7039		1.9448 -4.0180	
5	2•2428 1•1600	7.5601 -71.8760	5.7548 430.9609			5573.7795 269.7420	10854.5924 3.7900		1.9458 -3.0544	1.9441
6	6.2523 1.1665	7.3711 -76.9724	6.4965 462.7197	-1.5031 2.4890		5467.2096 268.0724	11636.2066 3.8631	1.9395 1.1810	1.9365 -2.6842	1.9453
7	10.4533 1.1600	7.3825 -81.6020	7.0797 497.3735	-1.0451 2.7430		5445.5511 268.8955	12461.2145 3.8690		1.9389 -2.2277	1.9442
8	14.5717 1.1600		7.5865 529.7445	-0.6049 2.9741		5510.7145 268.7996	13185.5531 3.8617		1.9424 -1.7845	1.9468
9	18.7059 1.1600	7.1824 -89.3810	8.2794 559.8497			5605.5373 268.5435	13869.5413 3.9716		1.9419 -1.2850	1.9492
10	22.R016	7.0920	8.7641	0.4015	0.9660	5797.9497	14403.1495	1.9486	1.9449	1.9502

269.3114

4.0337

1.2057 -0.8042

1.1600

87.3766

585.7465

ت

```
NACAL 292
             RUN 93
                           DATE 20 DCT 80 TIME 03.55
                                                            RECOMP. NO. 1
                                                                               DISK 1
                                                                                            PAGE 2
JOB NO. 11
              LDGR ACCT 31302
                                   CONTRACT 1631
                                                     SUB ACCT 10001
                                                                            ACO DATE 20 AUG 80 23.07
MCD 82 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                        MEAN=38 DEG, CMU=4
DATA POINT 1
                                                 -0.2530
                                             0.3890 -0.0222
                                             0.3835
                                                      0.1141
               0.1330 0.1044
                                             -0.0175 -0.0713
            0.0335
                          -2.1536
                                                                    -0.7236
                                                                               0.3595
           0.0012
          0.2393
                            -0.9533
                                                                  -1.5535
           0.4098
            0.4427
                               0.4202
                                                                 -1.2944
                                                                                  0.3729
               0.4421 0.4373
                            0.4321
                                    0.1006
                                                                      0.1181
                                                                                     0.3669
                               0.4350
                                       0.1078
                                                                           0.3266
                                                                                       0.3816
                                 0.4306 0.1411
                                                                                0.3706
      0.1616
               0.1268
                       0.1206 0.3836
                                        0.1467
```

0.1392

0.3811

0.1305

0.1417 0.3935

```
NACAL 292
             RUN 93
                          DATE 20 OCT 80 TIME 03.57 RECOMP. NO. 1
                                                                            DISK 1
JOB NO. 11
                                                                                         PAGE 14
          LDGR ACCT 31302
                               CONTRACT 1631 SUB ACCT 10001
                                                                        ACO DATE 20 AUG 80 23.18
MOD 82 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                       MEAN=38 DEG CMU=4
DATA POINT 7
                                               -0.2978
                                           0.3821 -0.0316
                                           0.3767
                                                  0.0874
             -0.0916 0.0447
                                           -0.0178 -0.1051
           -0.0898
                         -1.9837
          -0.3361
                                                                 -0.7144
                                                                            0.4025
          0.0186
                           -0.9136
           0.3014
                                                                -1.4142
            0.4289
                              0.4128
              0.4341 0.4324
                                                               -1.1990
                                                                               0.3677
                          0.4344 0.0967
                                                                   0.1250
                                                                                 0.3578
                             0.4352 0.1176
                                                                       0.3313
                                0.4263 0.1512
                                                                                   0.3732
                                                                            0.3712
     0.0298 -0.0556 -0.0024
                            0.3773 0.0491
                                              0.0758
                                                      0.3749
                                                              0.0795
                                                                      0.0920 0.3873
```

```
NACAL 292
                     DATE 20 OCT 80 TIME 03.58 RECOMP. NO. 1
           RUN 93
                                                                            DISK 1
                                                                                        PAGE 16
JOB NO. 11
                LDGR ACCT 31302 CONTRACT 1631
                                                   SUB ACCT 10001
                                                                         ACO DATE 20 AUG 80 23.18
MOD 82 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG,
                       MEAN=38 DEG, CMU=4
DATA POINT 8
                                               -0.3240
                                            0.3789
                                                    -0.0460
                                           0.3753
                                                   0.0765
              -0.1772 -0.0165
                                           -0.0138 -0.1296
           -0.1961
                         -1.8860
                                                                  -0.6869
                                                                             0.4092
          -0.4895
         -0.0482
                           -0.8794
                                                                -1.2907
           0.2345
            0.4095
                              0.4202
                                                               -1.1410
                                                                               0.3629
               0.4362 0.4385
                           0.4298 0.0923
                                                                    0.1198
                                                                                  0.3572
                              0.4313 0.1145
                                                                        0.3319
                                                                                   0.3744
                                 0.4310 0.1678
                                                                             0.3750
      -0.0171 -0.1515 -0.1497 0.3717 -0.0085 0.0410 0.3848 0.0584 0.0646 0.3860
```

RECOMP. NO. 1 PAGE 20 R UN 93 DATE 20 DCT 80 TIME 03.58 DISK 1 NACAL 292 SUB ACCT 10001 ACO DATE 20 AUG 80 23.20 CONTRACT 1631 JOB NO. 11 LDGR ACCT 31302 MOD 82 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=46 DEG, AFT=30 DEG, MEAN=38 DEG, CMU=4 DATA POINT 10 -0.3155 0.3824 -0.0834 0:3776 0,0647 -0.0242 -0.1772 -0.3691 -0.2414 -0.5928 0.3733 -1.5358-0.3734-0.3361 -0.7529 -1.0377-0.2090 0.0966 0.3717 -1.0530 0.3709 0.4153 0.4301 0.4353 0.1382 0.4393 0.1021 0.3565 0.3301 0.4393 0.1316 0.3741 0.4353 0.2046 0.3735

-0.1258 -0.2725 -0.3092 0.3773 -0.1332 -0.0366 0.3724 0.0074 0.0223

ACAL	292 RUI	N 95	DATE 20	OCT 80	TIME 04.24	RECOMP	. NO. 1	DISK	1 P	AGE 22
DB NO	. 11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 10001	L	ACO DATE	21 AUG 80	18.01
MOD 8	4 ALPHA WII		AUGMENTOR EAN=32 DEG		DEG, FWD=32	DEG,AFT=32	DEG•	5	P _A 14.208	
					SUMMARY PAGE					
T NO	ALPHA H PHI	O H THETA	CLH THR UST	CDH DELAL	CMH . WFT	YM • THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.1747 0.8800	15.0515 48.7646	0.5102 96.1507	0.4472 0.2288		-661.6932 0.7650	1846.7758 0.0053	0.9886 0.0190	0.9955 0.4282	1.0012
2	-3.6840 0.8800	15.3854 38.9484	0.3288 75.7792	0 • 4 0 6 8 0 • 1 4 2 9		-722.2404 1.0683	1378.0002 0.0073	0.9900 0.0288	0.9978 0.3780	1.0023
3	-7.7388 0.8800	15.6516 22.1877	0.1503 58.6617	0.3686 0.0591		-642.4921 1.0126	662.8491 0.0068	0.9881 0.0248	0.9957 0.3438	1 - 0002
4 460	-11.6870 0.8800	15.4016 -9.0077	-0.0565 52.3645	0.3567 -0.0373	* ·- ·- ·-	-540.6646 0.9456	-86.1666 0.0065	0.9908 0.0290	0.9983 0.3276	1.0015
5	0.2332 0.8800	15.3551 48.9274	0.5031 96.4705	0.4384 0.2255		-637.2578 0.9117	1906.6131 0.0063	0.9886 0.0224	0.9960 0.4160	1.0011
б	4.1212 0.8800	15.0622 53.5367	0.6548 115.4619	0.4839 0.2977		-567.0818 0.5070	2366.2775 0.0035	0.9897 0.0120	0.9956 0.4718	1.0017
7	8.1205 0.8800	15.1255 55.8602	0.7782 133.8943	0.5277 0.3570		-534.0062 1.0195	2698.1746 0.0071	0.9941 0.0288	0.9974 0.4988	1.0035
8	11.9400 0.8800	15.1224 60.0318	0.9142 150.2450	0.5271 0.4222	0.2645 . 0.1286	-399.2718 0.3059	3058.1417 0.0021	0.9964 0.0090	0.9955 0.5180	1.0021
9	15.8357 0.8800	15•1066 59•5443	1.0019 165.2983	0.5851 0.4652		-219,7871 U.8335	3355.5698 0.0058	0.9975 0.0296	0.9971 0.5594	0.9988
10	19.8300 0.8800	15.0417 57.6938	1.1028 184.7695	0.6973 0.5164		-154.2798 0.9442	3592.7012 0.0066	0.9963 0.0309	0.9978 0.6663	0.9972

NACAL 2 JOR NO. MOD 84 DATA POI	11 LDGR ALPHA WIND ON	DATE 20 OCT 80 ACCT 31302 CONTRACT RUN, AUGMENTUR 1, C/B=60 MEAN=32 DEG, CMU=0	TIME 0	SIIR ACCT 1000	P• NO. 1 L DEG,	DISK 1 PAGE 2 ACO DATE 21 AUG 80 17.36
			0.5	603		
			0.7554	0.6970		
			0.7571	0.7183		
	0.7516 0.7293	0.7628 0.6647	0.6825	0.6958		
	0.7883 0.8722	C.7131			0.8007	0 46995
461	0.7886 0.7718				0.8423	
⊢	0.7758	0.7852 0.7820			0.7380	0.7018
		0.7942 0.7078			0.7704	
		0.7915 0.756	0		0.	0 • 6967 7769
		0.8173 0.7	7718			0.7035 0.7461

0.7597 0.7579 0.7628 0.7628 0.7554 0.7504 0.7529 0.7523 0.7479 0.7554

NACAL 292 JOB NO. 11 MOD 84 A	LDGR	DATE 20 DCT 80 ACCT 31302 CONTRACT		UB ACCT 100	MP. NO. 1	DISK 1 PAGE 14 ACQ DATE 21 AUG 80 17.58
DATA POINT		RUN, AUGMENTOR 1, C/B=60 MFAN=32 DEG, CMU=0	DEG, FWD=3	2 DEG,AFT=3	2 DEG,	
			0.53	52		
			0.7600	0.6965		
			0.7563	0.7169		
	0.6609 0.6609	0.7461 0.7144	0.7047	0.6890	0.8163	0.7050
4	0.8305 0.8703	0.7579			0.8498	
462	0.8348 0.8190	0.8051 0.8081			0.7330	0.6993
		0.8156 0.7322			0.7679	
		0.8110 0.7472	2		0.	0.7036 7812
		0.8224 0.7	7705			0.7086 0.7588
0.69	995 C.7318	0.7541 0.7541 0.739	92 0.7504	0.7529	0.7392 0.75	579 0.7709

NACAL .	- , ,	DATE 20 OCT 80	TIME 04.2	23 RECOM	IP. NO. 1	DISK 1 PAGE 16
JOB NO		ACCT 31302 CONTRACT		JB ACCT 1000)1	CO DATE 21 AUG 80 17.59
8 don	4 ALPHA WIND ON	RUN, AUGMENTOR 1, C/B=60 MEAN=32 DEG, CMU=0	DEG, FWD=32	? DEG•AFT=32	DEG •	20 PWIE 51 WOO 90 11*924
DATA P	OINT 8			•		
••			0.512	8		
			0.7514	0.6785	•	
			0.7520	0.7135		
	0.6827 0.6305 0.5994	0.6976 0.7019	0.7047	0.6757	0.8138	0.6947
463	0.7939 0.8657	0.7330			0.7877	0.6747
	0.8444 0.8274	0.8051 0.8124			0.7019	0.6961
		0.8136 0.7251			0.7599	
		0.8200 0.740	12			0.6976
		0.8200 0.740)2		0.7	6 98
		0.8223 0.	7537			0.7004 0.7500
	0.6939 0.6827	0.6827 0.7554 0.71	81 0.7082	0.7442	0.7051 0.72	93 0.7529

NACAL	292	RUN	95	DATE	20 OCT	80	TIME	04.23	3	RECOMP.	. NO.	1	ומ	ISK 1	L	PΛ	GE 20	
J08 NO.	. 11	LD	GR ACCT	31302	CON	TRACT	1631	SU	B ACCT	10001			ACA	DATE 2	21 AUG	0.8	18.01	
MOD 8	4 ALPH	A WIND		AUGMENT EAN=32 D			DEG, F	WD=32	DEG, A	FT=32 (DEG,							
DATA P	OINT 10	}																
								0.672	3									
							0.748	0	.6871									
							0.745	55	0.7180	•								
		0.6765		6709 0.688	13		0.70	016	0.6865	j	O	.6709	J	0.695	D			
	(0.5994		0.7	280						0.6	721						
464		0.8560 0.8560 0.8		8167	8026						0.63	173		0.0	5899			
				0.81	.53 0	•6947						0.658	7		0.685	9		
				C	.8175	0.70	15					(851	8				
					0.80	68 0	. 6686							0.79		900		

0.6864 0.6982 0.6597 0.7429 0.6734 0.6783 0.7411 0.6647 0.6995 0.7641

ACAL	292 RU	JN 96	DATE 20	OCT 80	TIME 04.34	RECOMP	• NO• 1	DISK	1 P.	AGE 22
TB NO.	. 11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 10001		ACQ DATE	21 AUG 80	18.23
40D 85	S ALPHA WI		AUGMENTOR EAN=32 DEG,	CMU=1	DEG • FWD=32		DEG,	P _T S 14.97 14	A 4.208	
					SUMMARY PAGE					
OÑ 1	ALPHA H Phi	O H Theta	CLH THRUST	C DH D EL A L	CMH WFT	мү НТНТ	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.5972 0.9500	14.9964 88.1048	1.3895 196.2724	0.0459 0.6328		1170.9173 172.0312	5228.4596 0.8643	1.3805 0.3887	1.3733 -0.3428	1.3793
2	-3.3919 0.9500	15.2622 -89.1305	1.1557 166.0784	-0.0175 0.5256		1085.8144 121.5273	4719.2568 0.8458	1.3762 0.3849	1.3726 -0.4024	1.3751
465 თ	-7.3371 0.9500	15.2866 -84.4841	0.9565 138.2932	-0.0923 0.4347		1059.5501 122.6194	4079.6648 0.8520	1.3777 0.3868	1.3756 -0.4792	1.3785
4	-11.2779 0.9500	15.1010 -79.6357	0.7988 115.4464	-0 •1 460 0 • 3636		1044.3850 122.2804	3477.3169 0.8601	1.3754 0.3890	1.3754 -0.5351	1.3751
5	0.6233 0.9500	15.0616 87.4149	1.4220 201.6415	0 •0642 0 •6481		1155.8179 122.4653	5276.1210 0.8637	1.3776 0.3899	1.3750 -0.3257	1.3751
6	4.5837 0.9500	14.8378 85.4039	1.6083 225.3869	0 •1 292 0 •73 48		1406.9116 122.0222	5658.5639 0.8735	1.3779 0.3917	1.3750 -0.2624	1.3751
7	8.5545 0.9500	14.5687 82.8451	1.8694 258.4063	0 •2346 0 •85 &2		1521.3169 121.8656	6155.6919 0.8885	1.3769 0.3951	1.3743 -0.1604	1.3753
8	12.4769 0.9500	14.8183 81.2355	2.1104 297.8892	0.3253 0.9732		1665.7074 122.2842	6675.9409 0.8765	1.3793 0.3923	1.3746 -0.0669	1.3789
Q	16.4699 0.9500	14.6041 79.5902	2.3401 327.1178	0 •4299 1 •0852		1991.0396	7078.0619 0.8980	1.3812 0.3981	1.3748 0.0317	1.3841
10	20.4074 0.9500	14.7724 77.6406	2.4805 353.1526	0.5435 1.1585		2307.2416 122.4457	7364.8228 0.8804	1.3788 0.3936	1.3730 0.1498	1.3799

•

NACAL 292	RUN 96	DATE 20 NCT 80	TIME 04	4.30 R	RECOMP. NO.	1	DISK 1	PAGE 2
JOB NO. 11	LDGR ACCT	31302 CONTRACT	1631	SUB ACCT	10001	ACO	DATE 21 AUG	80 18.08
MOD 85 ALPHA		AUGMENTOR 1, C/B=60 FAN=32 DEG, CMU=1	DEG, FWD:	=32 DEG,AF	T≃32 DEG,			
DATA POINT 1								
			0.5	5310				
			0.7743	0.7031				
			0.7754	0.7229				
	0.7380 0. 0.7026 .7573	7492 -0.0684	0.7807	0.6678	α.:	3541	0.6756	
0.	8865 •8447	-0.0348			0.51	31		
	0.8133	0.8548 8132			0.4578	3	0.6818	
		0.8210 0.7979			0	.7561	0.6735	
		0.8257 0.87	07			0.81	38	
		0.8368 0	.7767				0.69 0.7630	87

0.7716 0.7530 0.75.3 0.7853 0.7610 0.7393 0.7666 0.7542 0.7405 0.7623

```
PAGE 14
                                                                                    DISK 1
                                                TIMF 04.33
                                                                RECOMP. NO. 1
                            DATE 20 DCT 80
              RUN 96
NACAL 292
                                                                               ACO DATE 21 AUG 80 18-19
                                                        SUB ACCT 10001
                                     CONTRACT 1631
                 LDGR ACCT 31302
JOB NO. 11
MOD 85 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                         MEAN=32 DEG, CMU=
DATA POINT 7
                                                     0.4992
                                                          0.6786
                                                 0.7593
                                                          0.7148
                                                 0.7584
                                                 0.7405
                                                          0.6596
                 0.6337
                         0.6946
                                                                           0.3497
                                                                                      0.6586
                             -0.0488
              0.5734
             0.5672
                                                                         0.4908
                                0.0540
            0.7865
             0.8657
                                                                                        0.6725
                                                                        0.4262
                                  0.8474
              0.8511
  467
                 0.8351 0.8212
                                                                            0.7483
                                        0.7760
                               0.8183
                                                                                            1.6710
                                                                                 0.7985
                                  0.8292
                                           0.8652
                                                                                              0.6716
                                                                                       0.7536
                                     0.8322
                                              0.7693
                                                                                         0.7387
                                                                                0.6958
                                                              0.7480
                                                                       0.7051
                                            0.7001
                                                     0.6765
```

0.6188

0.6324

```
NACAL 292
                RUN 96
                              DATE 20 OCT 80 TIME 04.33
                                                                RECOMP. NO. 1
                                                                                    DISK 1
                                                                                                 PAGE 16
  JOB NO. 11
                   LDGR ACCT 31302
                                      CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                ACQ DATE 21 AUG 80 18.20
... MOD 85 ALPHA WIND ON RUN, AUGMENTOR 1, C/B =60 DEG, FWD=32 DEG, AFT=32 DEG,
                           MEAN=32 DEG, CMU=1
  DATA POINT 8
                                                      0.5401
                                                 0.7540
                                                          0.6843
                                                 0.7574
                                                          0.7087
                  0.5691 0.6150
                                                 0.7369
                                                          0.6491
               0.5647
                              0.0782
                                                                          0.3379
                                                                                    0.6523
              0.4951
             0.7082
                                0.1112
                                                                       0.4970
              0.8510
               0.8579
                                  0.8412
                                                                       0.4373
                                                                                       0.6684
                 0.8494 0.8323
                               0.8297
                                      0.7767
                                                                          0.7531
                                                                                          0.6662
                                  0.8373
                                          0.8619
                                                                               0.8047
                                                                                           0.6752
                                     0.8410 0.7743
                                                                                     0.7565
         0.5430 0.5094
                          0.5858
                                  0.7617
                                           0.6107
                                                    0.6417
                                                            0.7517
```

0.6685

 Joi Mi	8 NO	292 • 11 5 ALPHA OINT 10		R ACCT 31		CONTRACT 1. C/B=60	1631	04.34 SUB ACC WD=32 DEG,	RECOMP. NO. T 10001 AFT=32 DEG,		DISK 1 PAGE 20 Q DATE 21 AUG 80 18.22
469		0 r 0 r 0 r 0 r	•3510 3075 5•1 3669 •8593 0•8663	0.8513	0.0287 0.3373 0.858 0.8433 0.854	0.7428	0.7545 0.7596 0.666	0.7116	0. 0.45 0.472		0.5949 0.6690 0.6681 3 0.6869
		0.4783	0.3907	0 • 41 81	0.761	17 0.462	8 0.5	697 0.75	54 0.6144	0.6219	0.7498

ACAL	292	RUN	97		DATE	20	ост	80	TIME	04 • 45	RECOM	P. NO.	1	DISK	1	PAGE 24
3B NO	. 11	L	DGR	ACCT	31302		CON	TRACT	1631	SUB	ACCT 1000	1		ACO DATE	21 AUG	80 18.44
MOD 8	6 ALPHA	WIND	ON	-	AUGMEN EAN=32				-	FWD=32	DEG,AFT=32	DEG.		P _T 15.00	P _A 14.208	
									SUMMA	RY PAGE						
r NO	ALPHA PHI	Н	o TH	H Eta	CL THR			CDH DELA		CMH WFT	. Үм тнтн		RL MUTH	PTPFCH CDR	PTPCE CDHF	
1	0.961 0.950		15.1 79.6		2.3 347.4		-	-0,435 1,050		0.1002 8.0709	3701.0255 260.2640	9228. 1.	0669 8229	1.9000 0.5953	1.894	
2	-2.988 0.950		14.9 75.4		2.1 317.7	779 528	-	-0.567 0.951		0.1577 8.0685	3435.3267 260.6668	8875. 1.	7460 8462	1.9049 0.5995	1.894	
3	-6.940 0.950		14.9 72.3	_	2.1 312.0	112 609	•	-0.670 0.918		0.2314 8.0848	3276.8216 261.6494	8504. 1.	8995 8573	1.9019 0.6020	1.894	
4	2 -10.842 0.950	5 -	15.1 66.7		1.8 290.1		•	-0.802 0.813		0.2849 8.0552	3367.8272 260.3029	7675. 1.	0354 8310	1.9036 0.5969	1.893 -1.399	
5	0.999 0.950		15.0 79.4		2.4 345.6	008 480	•	-0.446 1.052		0.0901 8.0606	3679.2539 261.2603	9167. 1.	693 7 8459	1.9035 0.5996	1.895	
6	0.982 0.950		15.1 79.6		2 • 4 348 • 5		-	-0.438 1.056		0.0591 8.0540	3702.0644 261.3473		1121 8375	1.9017 0.5981	1.899 -1.036	
7	4.944 0.950		14.9 83.6		2.6 378.9	705 877	•	-0.25/ 1.175		0.0206 8.0135	3865.0270 259.8900		887 7 8426	1.9028 0.5980	1.894	
8	8•989 0•950		14.7 87.0		2.9 413.8		-	-0.152 1.315		0.0512 8.0453	4100.7224 261.2770		0865 8799	1.8993 0.6053	1.893 -0.75	
9	12.902 0.950		14.8 89.9		3 • 2 456 • 0	544 584		0.004		0.1271 8.0293	4376.4163 261.1632		7420 8636	1.8997 0.6019	1.895	
10	16.974 0.970		15.1 86.6		3.5 502.7	264 119		0.207 1.584		0.2321 8.0288	4555.3631 261.0610		3661 8344	1.8978 0.5972	1.894	

PAGE 2

DISK 1

RECOMP. NO. 1 TIME 04.40 DATE 20 OCT 80 **RUN 97** NACAL 292 ACO DATE 21 AUG 80 18.28 SUB ACCT 10001 CONTRACT 1631 LDGR ACCT 31302 JOB NO. 11 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG. CMU=2 Q=15.4 DATA POINT 1 0,4555 0.6658 0.7810 0.6760 0.7832 0.7019 0.6201 0.6823 0.7140 0.5691 0.0149 -0.E656 0.6606 0.6751 0.0720 -0.8204 0.8781 0.6303 0.8781 -0.0836 0.8172 0.8406 0.8329 0.8340 0.6924 0.8340 0.7761 0.5477 0.3079 0.8378 1.0142 0, 561 0.7751 9.8428 0.6899 0.6860 0.7009 0.7880 0.7830 0.6792 0.7904 0.6916

0.12.5

0.6978

DATE 20 OCT 80 TIME 04.43 NACAL 292 RUN 97 RECOMP. NO. 1 DISK 1 PAGE 16 JOB MO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 21 AUG 80 18.41 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 Q=15.4 DATA POINT 8 0.4845 0.7643 0.6420 0.7653 0.6976 0.5997 0.6363 0.6936 0.6487 0.0385 0.5895 0.4915 -0.8460 0.4499 -0.7122-0.01460.7053 0.8655 0.8159 0.8678 -0.18260.6329 0.8558 0.8442 0.8381 0.7619 0.6865 0.6410 0.8049 0.8443 1.0315 0.6419 0.7622 0.8381 0.6786

0.6307

0.5568 0.6345 0.7594

0.6351

0.7519

0.6574

0.6444

0.7780

NACAL 292 RUN 97 DATE 20 OCT 80 TIME 04.44 RECOMP. NO. 1 DISK 1 PAGE 18 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACC DATE 21 AUG 80 18.41 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/E=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 Q=15.4 DATA POINT 9 0.4909 0.7699 0.6590 0.7688 0.6945 0.4865 0.5692 0.7016 0.6624 0.4952 -0.5992 0.0428 0.5375 0.3101 0,6208 -0.5510 -0.0158 0.8293 0.8781 0.8228 -0.1252 0.6516 0.8718 0.8579 473 0.8519 0.7684 0.6955 0.6549 0.8539 1.0140 0.8171 0.6776 0.8519 0.7044 0.7708 0.4362 0.4375 0.4654 0.7681 0.5462 0.6040 0.7643 0.6301 0.6413 0.7780

177 ---

NACAL 292 RUN 97 DATE 20 OCT 80 TIME 04.44 RECOMP. NO. 1 JOB NO. 11 DISK 1 LDGR ACCT 31302 PAGE 22 CONTRACT 1631 SUB ACCT 10001 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/8=60 DEG, FWD=32 DEG, AFT=32 DEG, ACO DATE 21 AUG 80 18.43 MEAN=32 DEG; CMU=2 Q=15.4 DATA POINT 11 0.5068 0.7875 0.6800 0.7929 0.7535 0.2815 0.3766 0.2802 0.6295 0.6748 -0.5638 0.2349 0.0988 0.3948 0.4667 -0.3475 0.7364 0.0149 0.8822 0.8905 0.9015 0.8959 -0.0311 0.6342 0.8820 0.7347 0.7177 0.6596 0.8910 1.0673 0.8524 0.8862 0.7511 0.7183 0.8187 0.3567 0.2274 0.1994 0.7979 0.4058 0.5518 0.7880 0.6090 0.6090 0.7929

CAL 292	R UN 97	DATE	20 OCT 80	TIME	04.45	REGOMP. NO.	1	DISK 1 PAGE 25
IB NO. 11	LDGR AC	CT 31302	CONTRACT	1631	SUB /	ACCT 10001		ACO DATE 21 AUG 80 18.44
00 04 4100	A 117410 ON DA							

OD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, ...
MEAN=32 DEG, CMU=2 Q=15.4

SUMMARY PAGE

NO	ALPHA H PHI	Q H THETA	CLH THRUST	C DH D EL A L	CMH · WFT	. Үм ТН1Н	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	20.9727 0.9500	14.9510 83.3869	3.8311 542.8394	0.4441 1.7421	0.2867 8.0123	4908.9419 260.7370	11658.1574 1.8524	1.9023 0.5997	1.8921 -0.1556	1.8970

```
NACAL 292
                 RUN 98
                               DATE 20 OCT 80
                                                   TIME 04.53
                                                                  RECOMP. NO. 1
                                                                                      DISK 1
                                                                                                    PAGE 2
  JOB NO. 11
                    LDGR ACCT 31302
                                                           SUB ACCT 10001
                                                                                   ACQ DATE 21 AUG 80 18.49
                                        CONTRACT 1631
MUD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                            MEAN=32 DEG, CMU=4 Q=7.7
  DATA POINT 1
                                                        0.0911
                                                   0.3977
                                                             0.2242
                                                   0.3960
                                                             0.2389
                   0.2690 \quad 0.2473
                                                    0.2724
                                                             0.1678
                0.2120
                               -1.2976
                                                                            -0.3888
                                                                                       0.1877
               0.2176
                                 ~1.2504
              0.3757
                                                                          -0.4333
               0.4459
                0.4525
                                    0.3819
                                                                         -0.5192
                                                                                          0.3225
                   0.4405 0.4319
                                 0.4322
                                          0,3331
                                                                              0.2917
                                                                                             0.3268
                                    0.4343
                                             0.6606
                                                                                   0.4268
                                                                                               0.3616
                                       Ú 4352 0.3324
                                                                                        0.4029
          0.2721
                   0.2790
                                              0.2864
```

0.386

0.2951

0.2976

0.3850

0.2703

```
RUN 98 DATE 20 OCT 80 TIME 04.55 RECOMP. NO. 1
 NACAL 292
                                                                           DISK I
                                                                                       PAGE 12
 JOB NO. 11
            LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 21 AUG 80 19.03
_ MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                        MFAN=32 DFG, CMU=4 Q=7.7
 DATA POINT 6
                                                0.1001
                                            0.3940
                                                    0.2845
                                            0.3958
                                                    0.3096
               0.1748 0.2579
                                            0.2979
                                                   0.2279
             0.1674
                          -1.1903
                                                                 -0.3413
                                                                           0.1934
            0.0827
           0.2827
                            -1.1324
                                                                -0.4510
            0.4177
             0.4500
                              0.3912
                                                               -0.5960
                                                                              0.2589
                0.4499 0.4413
                            0.4339 0.3635
                                                                   0.2894
                                                                                0.2851
                               0.4419
                                      0.7057
                                                                       0.4237
                                                                                   0.3290
                                0.4356 0.3122
                                                                             0.3923
        0.1878
              0.1636 0.2046 0.3869 0.2411
                                               0.2405 0.3831 0.2833 0.2666 0.3769
```

NACAL 2 JOB NO. MOD 87	11 LD	GR ACCT 313	02 MENTOR	OCT 80 CONTRACT 1, C/B=60 , CMU=4 Q=	1631 DEG, F		ACCT	RECOMP. 10001 FT=32 [DISK ACO DAT		PAGE 14 8 80 19•04
DATA PO	INT /					0.1484	·						
					0.393		3043	3					
					0.396	0	3427	,					
	0.1 0.1252	345 0.215	•0318		0.29	97	0.2858	3	-0.	2998	0.	1430	
	-0.0091 0.2232		-1.062	4					-0.50)46			
4	0.3789 0.4471	l 4525 0•444		968					-0.554	÷0		0.2846	
478			0.4374	0.3701					C	289	7	0.29	28
			0.4	400 0.7	070					(0.4235		
				0.4374	0.3060						0	.4012	3154
	0.1481 0.	1165 0.11	78 0.	3856 0.	1940	0.2256	0.	3931	0.251	1 0	•2492	0.3825	

ı

PAGE 18

```
NACAL 292
               RUN 98
                       DATE 20 OCT 80
                                              TIME 04.56
                                                              RECOMP. NO. 1
 JOB NO. 11
                                                                                DISK 1
                  LOGR ACCT 31302
                                    CONFRACT 1631 SUB ACCT 10001
. MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/8=60 DEG, FWD=32 DEG, AFT=32 DEG,
                                                                             ACO DATE 21 AUG 80 19.06
                         MEAN=32 DEG, CMU=4 Q=7.7
 L TA POINT 9
                                                  -0.0354
                                              0.3926
                                                       0.0683
                                              0.3914
                                                       0.2365
               -0.0853 0.0569
                                               0.1943
            -0.1127
                                                       0.1144
                           -1.0611
           -0.0871
                                                                     -h.3474
                                                                                0.1609
           0.0446
                             -018419
            0.2549
                                                                   -0.4181
             0.4161
                                0.4197
                0.4423 0.4460
                                                                  -0.4083
                                                                                   0.2920
                             0.4442 0.2914
                                                                      0.2888
                                                                                     0.2606
                               0.4428 0.5956
                                                                           0.4232
                                  0.4430 0.3359
                                                                                       0.3097
                                                                                0.4007
      -0.0347 -0.0511 -0.1328
                                0.3707
                                        0.0700
                                                0.1767
                                                         0.3869
                                                                 0.1897
                                                                         0.2194
                                                                                  0.3875
```

ACAL	292	RUN	98	DATE 20	OCT 80	TIME	04.56	RECOMP. NO	. 1	DISK	ı	PAGE 20
ดผ ลด	. 11	LO	GR 'ACCT	31302	CONTRACT	1631	SUB	ACCT 10001		ACO DATE	21 AUG 8	0 19.06
8 GOM	37 ALPHA	WIND		AUGMENTOR FAN=32 DFG			FWD=32 [DEG,AFT=32 DEG,		P _T s	A . 208	
						SUMMAI	RY PAGE			14.00		
ר אס	A L PHÁ PH I		O H THETA	CLH THRUST	CDH DELA		CMH WFT	YM THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH

And the second of the second o

•

	PHI	THETA	THRUST	DELAL	WFT	тнтн	CMUTH	CDR	CDHR	
1	1.8106 0.9500	7.8204 -73.7280	4.5334 349.1374	-1.3232 1.8214	-0.0576 8.0501	4251.6072 267.1248	8482.2854 3.6236	1.9539 0.8414	1.9457 -2.1647	1.9489
2	-2.1643 0.9500	7.7444 -69.2579	4.2367 330.2941	-1.6044 1.6868	-0.0639 8.02?2	4204.3503 266.2933	7975.7745 3.6525	1.9472 0.8439	1.9463	1.9440
3	-6.5205 0.9500	7.7809 -61.4351	3.4790 290.1578	-1.8940 1.3858	-0.1913 8.0265	4294.2165 266.8785	6920.5137 3.6434	1.9518 0.8431	1.9443 -2.73 <i>1</i> 7	1.9524
4	-10.4544 0.9500	7.8397 -54.8237	2.8999 261.8477	-2.0439 1.1624	-0.2957 8.0062	4390.6259 266.2037	6082.7962 3.6069	1.9530 0.8379	1.9459 -2.8818	1.9440
5	5.8242 0.9500	7.6661 -78.2203	4.9138 362.2583	-1.0247 1.9922	-0.0206 7.9890	4330.0088 265.5482	8724.4350 3.6795	1.9406 0.8456	1.9449 -1.8704	1.9464
6	9.7695 0.9500	7.7177 -81.1822	5,0678 372,6106	-0.7861 2.0764	0.0221 7.9830	4518,4330 265,6683	8926.5944 3.6565	1.9462 0.8424	1.9460 -1.6286	1.9478
7	13.7562 0.9500	7.5823 -84.7837	5.4561 391.0813	-0.4981 2.2557	0.1057 7.9799	4641,0639 265,8040	9271.0531 3.7237	1.9466 0.8497	1.94°2 -1.3478	1.9487
	17.8325 0.9500	7.6280 -89.1250	5. 8449 419.7132	-0.08 92 2.4554	0.1095 7.9559	4715 *7598 264 *6870	9523.7263 3.6859	1.9416 0.8448	1.9441 -0.9340	1.9451
9	22.0552 0.9500	7.2849 86.4514	6.5170 453.9491	0.4041 2.7786	0.2185 7.9822	4719,2805 266,0413	9988.3995 3.8267	1.9469 0.8618	1.9470 -0.4577	1.9471

																				0
NACAL	29	2	R UN	98		DATE	20	OCT	80	TIME	04.53	3	RFCOMP.	NO.),	DIS	к 1		PAGE	2
אנוט אינו	• I	1	İ	LDGR	ACCT	31302		CON.	TRACT	1631	SU	B ACCT	10001			ACO DA	TE 2	1 AUG	80 18	8.49
8 do-t	7	ALPH	v MIN	D ON					C/B=60 U=4 Q=		WD=32	DEG,A	FT=32 [EG,						
DATA P	OIN	T 1																		
											0.091	Ŀ								
										0.397	77 (.2242	** * *							•
										0.396	0 0	ວ 2389)							
			0.21	20	0 0.2	473 -1.29	76			0 •27	724 (0.1678	3	-0	.3888	0,	1877			
		0	0.217 .3757			-1.	2604	'						-0.43	333					
481			0.449 0.45 0	25	5 0.4	319	0.38	319					•	-0.519	92		0.3	225		
						0.4	322	0	•3331					(0.2917	7	a	0.328	: B	
							0.43	343	0.66	06					C	.4268				
							(0.43	52 0	•3324						C	402		614	
						0.4	0.43	343	0.66					•) • 4268		0.3		

0.2721 0.2790 0.2703 0.3788 0.2864 0.2777 0.3869 0.2951 0.2976 0.3850

```
NACAL 292
                            DATE 20 OCT 80
              RUN 98
                                                TIME 04.55
                                                                RECOMP. NO. 1
                                                                                    DISK 1
                                                                                                  PAGE 12
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                             ACD DATE 21 AUG 80 19.03
 MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                         MFAN=32 DFG, CMU=4 Q=7.7
DATA POINT 6
                                                     0.1001
                                                0.3940
                                                          0.2845
                                                0.3958
                                                          0.3096
                0.1748
                        0.2579
                                                 0.2979
                                                          0.2279
             0.1674
                            -1.1903
                                                                         -0.3413
                                                                                     0.1934
             0.0827
           6.,2827
                              -1.1324
                                                                       -0.4510
            0.4177
             0.4500
                                 0.3912
                                                                      -0.5960
                                                                                        0.2589
   482
                0.4499 0.4413
                              0.4339
                                       0.3635
                                                                           0.2894
                                                                                           0.2851
                                 0.4419 0.7057
                                                                                0.4237
                                                                                             0.3290
                                    0.4356
                                             0.3122
                                                                                      0.3923
       0.1878
                         0.2046
                0.1636
                                  0.3869
                                           0.2411
                                                    0.2405
                                                             0.3831
                                                                      0.2833
                                                                               0.2666
                                                                                        0.3749
```

RUN 98 DATE 20 OCT 80 TIME 04.55 MACAL 292 RECOMP. NO. 1 DISK 1 PAGE 14 JDB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 21 AUG 80 19.04 MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MFAN=32 DFG, CMU=4 Q=7.7 DATA POINT 7 0.1484 0.3938 0.3043 0.3960 0.3427 0.2997 C.2858 0.1345 0.2151 -0.2998 0.1430 0.1252 -1.0318 -0.0091 -1.0824 0.2232 -0.5046 0.2789 483 0.4471 0.3968 -0.5540 0.2846 0.4525 0.4445 0.2897 0.4374 0.3701 0.2928 0.4400 0.7070 0.4235 0.3154 0.4374 0.3060 0.4012 0.1481 0.1165 0.1178 0.2256 0.2511 0.3856 0.1940 0.3931 0.2492 0.3825

NACAL 292 RUN 98 DATE 20 OCT 80 TIME 04,56 RECOMP. NO. 1 DISK 1 PAGE 18 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 21 AUG 80 19.06 FOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MFAN=32 DEG, CMU=4 Q=7.7 DATA POINT 9 -0.0354 0.3926 0.0683 0.3914 0.2365 -0.0853 0.06690.1943 0.1144 -0.1127-1.0611 -0.3474 0.1609 -0.0871484 0.0446 -0.9819 -0.4181 0.2649 0.4161 0.4197 -0.4083 0.2920 0.4423 0.4460 0.4442 0.2914 0.2888 0.2606 0.4428 0.5956 0.4232 0.3097 0.4430 0.3359 0.4007 -0.0347 -0.0511 -0.1328 0.3707 0.1767 0.0700 0.3869 0.1897 0.2194 0.3875

•

∦ ستو د ر او	• 🗻 🧸	ŧ	- 💐	Marie W	فحسب	` ~ ≠⊰	*	-	-	Acres 100 March	durad	-	 <u>kanad</u>	-	į

ICAL	292 RL	IN 99	DATE 20	DCT 80	TIME 05.07	RECOMP	P. NO. 1	DISK	L PAGF 22	
тв но	• 11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 10001	l	ACO DATE 2	21 AUG 80 21.45	
400 B	B ALPHA WI				DEG, FH0=32	DEG,AFT=32	DEG,	P _{TS}	PA	
		М	EAN=32 DEG	CMU=0				14.74 1	4.218	
					SUMMARY PAGE		•			
. NO	ALPHA H	н а	CLH	CDH	СМН	YM	RL	PTPFCH	РТРСВН РТРАС	:H
	PHI	THETA	THRUST	DELAL		нгнт	CMUTH	CDR	CDHR	
1	0.2384	10.6041	0.3646	0.2878	0.0321	-419.4241	1377.1774	0.9932	0.9964 1.000	16
	0.9500	51.7179	66, 8814	0.2369	0.5893	1.4445	0.0100	0.0360	0.2517	
2	-3.8267	10.5933	0.1740	0.2639	-0.0713	-441.8695	689.8222	0.9934	0.9968 1.001	2
	0.9500	33,4025	45.4769	0.1066		1.4533	0.0101	0.0365	0.2274	_
3	-7.8793	10.6798	-0.0214	0.2623	-0.1819	-390.2229	-77.3490	0.9930	0.9967 1.000	8
f	0.9500	-4.6761	38.1611	-0.0263	0.1511	0.3875	0.0026	0.0092	0.2531	
4	-11.9403	10.7965	-0.3428	0.3011	-0.2588	-332.2508	-1297.2947	0.9909	0.9952 0.998	18
	0.9500	-48.7079	66.8919	-0.2405	0.4659	1.3260	0.0090	0.0282	0.2728	
5	0.1471	10.7537	0.3510	0.2871	0.0269	-363.5874	1322.0278	0.9913	0.9946 0.998	9
	0.9500	50.7128	66.2110	0.2275	0.5249	1.5247	0.0104	0.0319	0.2552	
6	4.1483	10.5499	0.5556	0.3245	0.1307	-300.8472	1999.8590	0.9944	0.9967 1.001	2
	0.9500	59.7140	92.1650	0.3682	0.1578	0.4224	0.0029	0.0097	0.3148	
7	8.1639	10.5143	0.7234	0.3393	-	-251.4812	2471.8307	0.9961	0.9970 1.001	.4
	0.9500	64.8721	114.0610	0.4839	0.2505	0.5596	0.0039	0.0154	0.3238	
8	12.1086	10.4207	0.9339	0.3776	0.3264	-144.5756	3057.3110	0.9965	0.9966 1.001	4
	0.9500	67.9840	142.5170	0.6300	0.2915	0.6582	0.0046	0.0180	0.3596	
9	16.0899	10.2637	1.1466	0.4666	0.3727	-87.8057	3970.8681	0.9964	0.9954 0.997	6
	0.9500	67.8567	172.4977	0.7820		0.3777	0.0027	0.0086	0.4579	
10	19.9988	10.3357	1.1475	0 •5 91 8	0.3413	-16.3219	4088 . 2627	0.9947	0.9944 0.996	0
	0.9500	62.7171	181.1751	0.7926	0.5342	1.6032	0.0114	0.0331	0.5586	

Macal 292 Run	99 DATE 2	20 NCT 80 TIM	E 05.03	RECOMP. NO.	1 DISK	1 PAGE 2
JOB NO. 11	LDGR ACCT 31302	CONTRACT 1631	SUB ACC	T 10001	ACO DATE	21 AUG 80 21.28
MOD 88 ALPHA WIN	D ON RUN, AUGMENTO MEAN=32 DE	DR 2. C/B=60 DEG. EG. CMU=0	FWD=32 DEG	AFT=32 DEG•		
DATA POINT 1						
			0.3	939		
			0.5164	0.4771		
			0.5148	0.4894		
0.521 0.5074	7 0.5130 0.5049	0.5198 0.4777	0.4717	0.4737	0.5328	0.4726
0.4913 0.5117		0.4969			0.5526	
0.5260 0.5392 0.4560		0.4981	0.4760			
0.5022	5219 0.5313 0.52	44 0.5452 0.49			0.5288	0.4806
486		0.5304				
		0.5501	0.5145			0.4814 0.5119

•

,

• •

.

*

0.5341 0.5310 0.5254 0.5099 0.5155 0.5142 0.5105 0.5272 0.5179 0.4981

```
NACAL 292
               RUN 99
                             DATE 20 OCT 80
                                                 TIME 05.06
                                                                  RECOMP. NO. 1
                                                                                      DISK 1
                                                                                                    PAGE 14
JOB NO. 11
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                   ACO DATE 21 AUG 80 21.41
MOD 88 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                          MEAN=32 DEG, CMU=0
DATA POINT 7
                                                             0.3905
                                                         0.5087
                                                                   0.4623
                                                         0.5059
                                                                   0.4765
             0.4932 0.4944 0.5025 0.5031
                                                         0.4686
                                                                   0.4587
         0.4919
                                          0.4876
                                                                                  0.5334
                                                                                             0.4668
     0.4894
   0.4919
                                            0.5105
                                                                               0.5514
 0.5031
   0.5541
                                              0.5303
                                                                               0.4932
                                                                                                0.4745
     0.5376
         0.5401
               0.5421 0.5375 0.5219
                                                                                  0.5156
                                      0.5459
                                                0.4963
                                                                                                  0.4708
                                                                                        0.5239
  487
                                         0.5493
                                                   0.5048
                                                                                                     0.4743
                                                                                             0.5076
                                            0.5536
                                                      0.5167
```

0.5136

0.5037

0.5117

0.5136

0.5031

0.4907

0.5000

0.5297

0.5062

NACAL 292 DATE 20 OCT 80 **RUN** 99 TIME 05.06 RECOMP. NO. 1 DISK 1 PAGE 16 JOS NO. 11 LDGR ACCT 31302 CONTRACT 1631 **SUB ACCT 10001** ACO DATE 21 AUG 80 21.42 MOD 88 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG; CMU=0 DATA POINT 8 0.3894 0.5087 0.4601 0.5073 0.4789 0.4969 0.4981 0.5099 0.5012 0.4732 0.4640 0.4901 0.4894 0.5359 0.4768 0.4640 0.4808 0.4932 0.5477 0.4863 0.5416 0.5359 0.4944 0.4745 0.5635 0.5544 0.5518 0.5419 0.5241 0.5153 0.5478 0.4942 0.4725 0.5248 0.5532 0.5033 0.4758 0.5114 0.5504 0.5160 0.4721 0.4554 0.4919 0.5037 0.5080

0.5117 0.5025 0.5142 0.5105 0.5043

NACAL 292 JOB NO. 11 MOD 88 ALPHA	LDGR ACCT 31302 WIND ON RUN, AUGMEN	CONTRACT 1631	05,07 RECOMP. NO SUB ACCT 10001 WD=32 DEG,AFT=32 DEG,	ልርስ ከልፕሮ	1 PAGE 20 21 AUG 80 21.44
DATA POINT 10					
			0.4395		
			0.5067 0.4689		
			0.5102 0.4860		
0. 6.4857 0.4597	5031 0.4901 0.4913	0.4678 0.4628	0.4606 0.4523		
0.4746		0 •4932		0.4640	0.4644
0.4733 0.5282				0.4709	
0.5740 0.5630		0.5564		0.4448	0.4701
(0.5620 0.5493 0.52	42			
489		0.5484 0.4671		0.4458	0.7700
		0.5555 0.47	04	0.57	0.4689 14
		0.5481 0	•4458	· -	0.4720 0.5328
0.4721	0.4467 0.4560	0.4671 0.4	4609 0.5037 0.467	l 0•4795 0-4	۸۵۵

ACAL	292 RI	IN 100	DATE 20	OCT 80	TIME 05.18	RECOMP	. NO. 1	DISK	1 F	PAGF 22
OB NO	• 11	LDGR 'ACCT	31302	CONTRACT	1631 SUB	ACCT 10001		ACQ DATE	21 AUG 80	22.09
MOD 89	9 ALPHA WI		AUGMENTOR EAN=32 DEG		DEG, FWD=32	DEG,AFT=32	DEG.	P _{TS}	^P A 4.218	
					SUMMARY PAGE					
T NO	ALPHA H PHI	Q H Theta	CLH THRUST	CDH DELAL	CMH NFT	. YM . THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.9094 0.9500	10.5392 -86.2494	1.4583 209.1168	-0.0956 0.9434		1507.1464 127.5851	5447.4488 0.8916	1.3993 0.3297	1.3987 -0.4254	1.4035
2	-3.1636 0.9500	10.2304 -81.4947	1.2182 172.7494	-0.1821 0.7861		1418.6449 127.3280	4738.3297 0.9078	1.4001 0.3328	1.3983 -0.5150	1.4003
3	-7.1359 0.9500	10.2636 -77.1181	1.0369 148.2129	-0.2371 0.6693		1342.7869 127.4570	4111.9222 0.9147		1.3071 -0.5716	1.4002
4 #	5 -11.1534 0.9500	10.4766 -70.7179	0.8037 121.1186	-0.2812 0.5211		1470.3225 127.4212	3341.8976 0.8958	1.3999 0.3308	1.3977 -0.6120	1.4006
5	0.9671 0.9500	10.4829 -86.7002	1.4774 210.6180	-0.0851 0.9563		1513.7283 128.2367	5481.2814 0.9010		1.3900 -0.4175	1.4023
6	4.9176 0.9500	10.7031 89.6627	1.7127 248.8816	0.0100		1574.5278 128.3853	6283.7765 0.8835		1.3982 -0.3194	1-4017
7	9.0140 0.9500	10.5261 86.9550	2.0469 292.9344	0.1088 1.3354		1592.1427 127.2626	7163.6535 0.8905	1.3997	1.3973 -0.2212	1.3971
8	12.9596 0.9500	10.4991 84.2267	2.3757 340.3569	0.2402 1.5599		1742.2162 127.6998	7914.2204 0.8959		1.3974	1.3974
9	17.1457 0.9500	10.5637 81.6511	2.6721 387.3289	0.3921 1.7700		1979.9896 128.0402	8540.3011 0.8928		1.3973 0.0610	1.3975
10	21.2078 0.9500	10.8109 78.6598	2.9211 436.9633	0.5752 1.9605		2253.3902 127.9177	9455.9350 0.8715		1.3963 0.2477	1.3961

NACAL 292	RUN 100	DATE 20 OCT	80 TIME	05.14	RECOMP. NO.	1 DISK	1 PAGE 2
JOB NO. 11	LDGR ACCT	31302 CON	TRACT 1631	SUB ACC	T 10001	ACQ DAT	E 21 AUG 80 21.53
MOD 89 ALPHA		AUGMENTOR 2, FAN=32 DEG, CM		WD=32 DEG,	AFT=32 DEG,		
DATA POINT 1							
				0.3	206		
				0.5204	0.4550		
				0.5253	0.4734		
0.515 0.5080		0.5123 0.51	36 -0 •3 048	0.4925	0.4262	0.0859	0.3532
0.5266 0.5421			-0.4036			0.1997	
0.5663 0.5161 0.530	7		0.5719			0.1724	0.4338
	0.5435 0.54					0.4993	
491		0.5		328		0.	0.4545 5522
			0.5637	0.5161			0.4589 0.5190
0.5210	0.5086 0	•5092 0•5328	0.5254	0.5117 0.	5316 0.5278	0.5030	0.5086

The second secon

NACAL 292 RUN 100	O DATE 20 OCT 80	TIME 05.16	RECOMP. NO.	1 DISK	1 PAGE 14
JOB NO. 11 LDGR	R ACCT 31302 CONTRACT 1	1631 SUB ACC	T 10001	ACO DATE	21 AUG 80 22.05
MOD 89 ALPHA WIND ON	N RUN, AUGMENTOR 2, C/8=60 D MFAN≕32 DFG, CMU=1	DEG, FWD=32 DEG,	AFT=32 DEG,		
DATA POINT 7					1
		0.34	483		1
		0.5309	0.4570		!
		⊕.5327	0.4796		•
0.5012	0.5123 0.5192 0.5024 -0.2841	0.5002	0.4496	0.0986	0.3613
0.4677 9.5154 0.5179	-0.343	0.1563	W+31123		
0.5634 0.5918 0.5773	0.5	5830		0.1563	0.4419
0.5805	0.5694 0.5480			0.5058	
492	0.5734 0 0.5804	0.5428		0 . 55	0.45(4 577
	0,586				0.4668 0.5337
0.4950 0.4739	9 0.4832 0.5285 0.504	·3 0.4956 0.5	5322 0.5142	0.5012 0.	.5154

```
NACAL 292
               RUN 100
                             DATE 20 NCT 80
                                                 TIME 05.17
                                                                 RECOMP. NO. 1
                                                                                      DISK 1
                                                                                                    PAGE 16
JOB NO. 11
                                      CONTRACT 1631
                  LDGR ACCT 31302
                                                         SUB ACCT 10001
                                                                                  ACO DATE 21 AUG 80 22.06
MDD 89 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                          MFAN=32 DEG, CMU=1
DATA POINT 8
                                                             0.3578
                                                        0.5346
                                                                  0.4618
                                                        0.5364
                                                                  0.5096
            0.5173 0.5074 0.5396 0.4912
                                                         0.4979
                                                                  0.4757
        0.5148
                                         -0.2853
                                                                                 0-1048
                                                                                             0.3960
    0.4726
  0.4801
                                           -0.3182
                                                                               0.2481
0.4795
  0.5412
                                              0.5818
                                                                              0.1612
                                                                                               0.4586
    0.6053
        0.6015
              0.5950 0.5831 0.5603
                                                                                  0.5085
                                      0.5868
                                                0.5400
 493
                                                                                                  0.4600
                                                                                       0.5670
                                         0.5876
                                                   0.6380
                                                                                                    0.4923
                                                                                             0.5512
                                            0.5922
                                                      0.5537
       0.4367
                0.3870
                         0.4404
                                  0.5347
                                            0,4968
                                                     0.5055
                                                              0.5489
                                                                       0.5012
                                                                                0.4906
                                                                                         0.5322
```

MACAL 292	RUN 100 DATE	20 OCT 80 T	IME 05.18	RECOMP. NO.	1 DISK	1 PAGE 20
JOB NO. 11	LDGR ACCT 31302	CONTRACT 16	SUB ACC	T 10001	ACO DAT	F 21 AUG 80 22.08
MOD 89 ALPHA	WIND ON RUN, AUGME MEAN=32	NTOR 2, C/B=60 DE DEG, CMU=1	EG, FWD≃32 DEG,	AFT=32 DEG.		
DATA POINT 10						
			0.2	2787		
			0.5488	0.3181		
			0.5472	0.4450		
0.522	•5098 0•4801 0•52	97 0.4478 -0.1902	0.4136	0.3901	0.1284	0.4044
0.4962 0.4748		-0.1762	2		0.2481	
0.4292 0.4731 0.5778		0.59	930		0.2623	0.4456
0.621	7 0.6146 0.6040 0.	5770			0.5566	
		0.6103 0	.4814		0.	0.4520 5935
494		0.6121	0.6137			0.4786 0.5662
		0.61.17	7 0.5700			
0.3883	3 0.3870 0.3380	0.5433 0.4249	9 0.4894 0.	.5607 0.5036	0.5036	0.5446

NACAI	L 292	RUN 101	DATE 24	DCT 80	TIME 08.02	RECOME	P. NO. 1	DISK	1 P	AGE 22
JOB I	NO. 11	LDGR ACC	T 31302	CONTRACT 1	.63] SUB	ACCT 1000	1	ACO DATE	21 AUG 80	22.34
MOD	90 ALPHA	WIND ON RUN	• AUGMENTOR MEAN=32 DEG		EG, FWD=32	DEG,AFT=32	DEG.	S	^P A 4.218	
				S	UMMARY PAGE	•		14.75 1	4.210	
PT NO	ALPHA PHI		CLH THRUST	CDH DELAL	CMH WFT	ҮМ • ТНТН	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	1.63 0.95		·	-0.5086 1.6805	0.1603 8.1229	3735.9635 264.6447	10418.5649 1.8284	1.9300 0.4971	1.9271 -1.0057	1.9365
2	-2.27 0.95			-0.6666 1.5032	0.0787 8.1103	3672.1732 264.5458	9549.6397 1.8207	1,9279 0,4960	1.9270 -1.1626	1.9290
3	-6.48 0.95			-0.8526 1.2728	-0.0313 8.1096	3772.5551 265.2410	8168.8119 1.8777	1.9357 0.5040	1.9248 -1.3567	1.9372
4	49 -10.628 0.95			-0.9459 0.9944	-0.1490 8.0841	3967.8021 264.3438	6840.2558 1.8301	1.9350 0.4971	1.9222	1.9290
5	1.76 0.95			-0.5252 1.7222	0.1819 8.0732	3694.9279 264.1997	10362.7519 1.8808	1.9293 0.5038	1.9228 -1.0291	1.9307
.	5.75 0.95			-0.3340 1.9316	0.2613 8.0700	3676.7563 264.3665	11241.7775 1.8950	1.9271 0.5057	1.9249 -0.8397	1.9296
7	9.933 0.95			-0.1226 2.1887	0.3879 8.1168	3672.7652 266.5115	12329.0334 1.9059	1.9306 0.5083	1.9255 -0.6309	1.9337
8	14.01			0.1245 2.4719	0.5239 8.0996	3793.2016 266.5428	13452,7795 1.9245	1.9345 0.5104	1.9296 -0.3858	1.9329
9	18.09° 0.95			0.3700 2.7145	0.6273 8.0638	3924.1343 265.5415	14349.3070 1.9442	1.9362 0.5120	1.9280 -0.1420	1.9254
10	22.34 0.95			0.7011 3.0465	0.7304 8.0622	4092.2696 265.7644	15325.4861 1.9979	1.9327 0.5193	1.9275 0.1817	1.9357

NACAL 292 RUN 101 DATE JOB NO. 11 LDGR ACCT 31302 MOD 90 ALPHA WIND ON RUN, AUGMEN MEAN=32	Odittimot	SUB ACCT 10001		1 PAGE 2 21 AUG 80 22.14	
DATA POINT 1		0.2230			
	C	.5486 0.3139			
	(0.5514 0.3808			
0.5475 0.5320 0.530 0.5320	8 0.4824 -1.1801	0.4247 0.3311	-0.2048	0:3232	
0.5097 0.5407	-1 .4423		-0.2481		
0.5457 0.5959	0.5010	•	-0.2121	0.4341	
0.5827 0.5806 0.5887 0.5860 0.5	5682		0.4703	0.4611	
0.5007	0.5944 0.5022		0.5	827	
496	0.6008 0.761	1		0.4868 0.5580	
• ·	0.5927 0.	5568			
0.5048 0.4942 0.4849	0.5395 0.5066 0.4	899 0.5420 0.50	54 0 _• 5004 (,5320	

NACAL 292	RUN 101	DATE 24 OC	T 80	TIME	08.01	RECOMP. NO.	1 DISK	1	PAGE 14
	LDGR ACCT	31302 CO	NTRACT	1631	SUB ACC	Т 10001	ACQ DAT	E 21 AUG	80 22.25
MOD 90 ALP	HA WIND ON RUN, ME	AUGMENTOR 2. AN=32 DEG. C		DEG, F	WD=32 DEG,	AFT=32 DEG,			
DATA POINT	7								
					0.2	893			
					0.5377	0.3973			
					0.5369	0.4132			
	0.5277 0.5165 986	0.5110 0.4	514 -0.9967	,	0.4662	0.4061	-0.1969	0.2475	
0.4613 0.4892			-0.87	29			-0.2414		
0.4589 0.5335 0.5993			٥.	4973			-0.3194	0.4	135
6.5	959 0.5991 0.587	0 0.5585	5891	0.4919	,		0.4414		0 •4144
497			0.5925	0.7	299		0.	5676	
7								0.553	0.45:28 2
			0.58	556	0.4931				
0.45	27 0.4489 0.	4080 0.522	27 0.47	700 0	.4626 0.	5234 0.484	3 0.4837	0.5227	

and the second of the second o

.....

••• • ·

```
NACAL 292
               RUN 101
                             DATE 24 OCT 80
                                                TIME 08.01
                                                                RECOMP. NO. 1
                                                                                     DISK 1
                                                                                                   PAGE 16
JOB NO. 11
                 LDGR ACCT 31302
                                     CONTRACT 1631
                                                        SUB ACCT 10001
                                                                                 ACO DATE 21 AUG 80 22.29
 MOD 90 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                         MEAN=32 DEG. CMU=2
DATA POINT &
                                                            0.1166
                                                       0.5320
                                                                 0.2520
                                                       0.5329
                                                                 0.3636
            0.5060 0.4812 0.4930 0.4446
                                                        0.3816
                                                                 0.2033
        0.4961
                                        -0.8863
                                                                               -0.2450
                                                                                           0.2580
    0.5017
  0.4613
                                          -0.8357
                                                                             -0.2304
0.4006
  0.4836
                                             0.4948
                                                                            ~6).2609
                                                                                              0.4307
    0.5783
        0.5967
              0.5991 0.5870 0.5534
                                                                                 0.4443
                                     0.5868
                                               0.4502
 498
                                                                                                 0.4346
                                                                                      0.5719
                                        0.5864
                                                  0.6712
                                                                                                   0.4589
                                                                                            0.5541
                                           0.5857
                                                     0.5293
       0.4030
                0.3813
                         0.2995
                                  0.5172
                                         0.4533
                                                    0.4458
                                                             0.5184
                                                                      0.4682
                                                                               0.4657
                                                                                        0.5184
```

NACAL 292 **RUN 101** DATE 24 DCT 80 TIME 08.02 RFCOMP. NO. 1 DISK 1 PAGE 20 JOB NO. 11 LDGR ACC1 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 21 AUG 80 22.32 MOD 90 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 DATA POINT 10 0.1360 0.5221 0.3241 0.5203 0.3254 0.4861 0.4427 0.4582 0.3981 0.3076 0.2434 0.4688 -0.9656 -0.1975 0.3049 0.4527 0.4316 -0.9095 -0.2365 0.3230 0.3639 0.5041 -0.2121 0.3414 0.4890 0.5800 0.5927 0.5800 0.5438 0.4585 0.5785 0.4135 499 0.4346 0.5765 0.5843 0.5743 0.4392 0.5451 0.5890 0.5124 0.2406 0.2524 0.1662 0.5184 0.3993 0.4155 0.5091

0.5128

0.4285

NACAL	292	RUN 102	DATE 24	OCT 80	TIME 08.1	1 RECOM	P. NO. 1	DISK	1 P	PAGE 26
JOB NO	. 11	LDGR ACCT	31302	CONTRACT	1631 SU	B ACCT 1000	1	ACO DATE	22 AUG BO	
MOD 8	IO ALDHA	WIND ON DUN	AUCHENTOD							0.03
	, BEITA	WIND ON RUN, M	EAN=32 DEG	2, C/B=60 CMU=1	DEG, FWD=32	DEG, AFT=32	DEG •	P _{TS}	PA	
					SUMMARY PAGE	<u>.</u>		14.75 1	4.218	
DT NO					SUMMAKI PAGE	:				
PT NO	ALPHA		CLH	CDH	CMH	YM	RŁ	PTPFCH	PTPCBH	DTDACH
	PHI	THETA	THRUST	DELAL	WFT	· THTH	CMUTH	CDR	COHR	PTPACH
1	0.889		1.4524	-0.1014	0.0370	1536.0329	E//3 0/51			
	0.950	0 -86.0061	206.0067	0.9352		127.4286	5463.8651 0.9006	1.4013	1.3982	1.3971
2	-3.068	E 30 2556				12.16.12.00	0.9000	0.3311	-0.4325	
2	0.950		1.2382	-0.1777		1411.8971	4878.6387	1.4047	1.4000	1.4010
	(, , , , , ,	0 -01.0230	174.1734	0.7990	5.4016	128.7748	0.9248	0.3364	-0.5142	2 4417 2(1
3	0.938	4 10.5016	1.4421	-0.888	0.0431	1496.3097	F/F/ 0070			
	0.950	0 -86.4765	206.0023	0.9338		126.2689	5456.0078 0.8856	1.4013	1.3929	1.3998
4	2.004	• • • • • • • • •				120.2009	0.0056	0.3267	-0.4155	
**	-3.0963 v 0.950		1.2046	-0.1584		1380.1670	4866.5895	1.4041	1.4000	1.4011
	50 0.950	0 -82.5055	174.2914	0.7789	5.3401	127.0161	0.8854	0.3271	-0.4856	1.4011
5	-7.1110	9 10.4524	1.0100	-0.2326	0 1000			_		
	0.9500	0 -77.0204	147.0774	0.6525	-0.1508 5.3239	1360.1520	4187.0088	1.4028	1.3988	1.4019
,				0.0022	2 + 32 3 9	126.5511	0.8918	0.3281	-0.5467	
6	-11.1306		0.8050	-0.2743	-0.2628	1414.0019	3399.2445	1.398	1.4001	1 (000
	0.9500	71.2689	121.7775	0.5246	5.3124	126.2491	0.8856	0.3267	-0.6016	1.4022
7	0.9537	7 10.3157	1.4704	-0.0813	0.0445					
	0.9500		206.2459	0.9522	0.0462	1497.1540	5435.2775	1.3993	1.4004	1.4034
_			20002133	0.0022	5.3324	126,9009	0.9061	0.3311	-0.4125	
8	4.9655		1.7425	0.0115	0.1589	1608.0314	6216.2588	1.4013	1 (000	
	0.9500	89.6187	243.8899	1.1326	5.3045	126.3359	0.9026	0.3295	1.4008 -0.3179	1.4033
9	9.1059	10.1745	2 0000		_		- 47720	0.0693		
	0.9500		2.0883 288.8847	0.1131	0.2766	1618.5017	7028.5738	1.4007	1.3998	1.4023
			# 00 # CU4 !	1.3618	5.3217	126.7301	0.9174	0.3330	-0.2158	
10	13.0011		2.3548	0.2400	0.3622	1782.0895	7540 5400			
	0.9500	84.1789	328.6481	1.5469	5.3349	127.2033	7549.5403 0.9161	1.4022	1.4000	1.4035
				•		12142000	0 6 7 1 0 1	0.3329	-0.0929	

NACAL 292 RUN 102 DATE 24 OCT 80 TIME 08.11 RECOMP. NO. 1 DISK 1 PAGE 27

JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 22 AUG 80 0.03

MOD 89 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,

MEAN=32 DEG, CMU=1

SUMMARY PAGE

PT NO	ALPHA H PHI	Q H THETA	CLH THRUST	CDH DELAL	CMH WFT	YM • THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
11	17.0971 0.9500	10.5388 82.0692	2.5871 373.7252	0.3604 1.7116	0.4562 5.3116	2027.9896 126.3533	8302.0787 0.8831	1.3981 0.3265	1.3985 0.0338	1.4012
12	21.2978	10.3121 78.7690	3.0145 430.2728	0.5985 2.0226	0.5540 5.3054	2243.9168 126.1560	9344.1102 0.9011	1.3975 0.3298	1.3972 0.2637	1.4014

```
NACAL 292
               RUN 102
                             DATE 24 OCT 80
                                                 TIME 08.06
                                                                 RECOMP. NO. 1
                                                                                     DISK 1
                                                                                                   PAGE 2
JOB NO. 11
                  LDGR ACCT 31302
                                      CONTRACT 1631
                                                         SUB ACCT 10001
                                                                                  ACO DATE 21 AUG 80 23.19
MOD 89 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                          MEAN=32 DEG, CMU=1
DATA POINT 1
                                                             0.3223
                                                        0.5201
                                                                  0.4396
                                                        0.5181
                                                                  0.4654
            0.4835 0.4885 0.5090 0.5009
                                                         0.4875
                                                                  0.4248
        0.4841
                                         -0.2309
                                                                                 0.G882
                                                                                            0.4067
    0.4866
  0.5108
                                           -0.0843
                                                                               0.2361
0.5127
  0.5202
                                              0.5494
                                                                              0.1665
                                                                                               0.4334
    0.5168
        0.5179
              0.5262 0.5330 0.5406
                                                                                  0.4953
                                      0.5557
                                                0.5270
502
                                                                                                  0.4292
                                                                                       0.5397
                                         0.5588
                                                   0-6311
                                                                                                    0.4455
                                                                                             0.5147
                                           0.5578
                                                     0.5131
       0.5052
                0.5177
                         0.5096
                                  0.5133
                                           0.5096
                                                             0.5108
                                                    0.5059
```

0.5090

0.5034

```
NACAL 292
               RUN 102
                             DATE 24 OCT 80
                                                 TIME 08.09
                                                                  RECOMP. NO. 1
                                                                                       DISK 1
                                                                                                     PAGE 18
JOB MO. 11
                  LDGR ACC7 31302
                                      CONTRACT
                                                          SUB ACCT 10001
                                                1631
                                                                                   ACQ DATE 21 AUG 80 23.59
MOD 89 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                          MEAN=32 DEG, CMU=1
DATA POINT 9
                                                              0.3625
                                                         0.5131
                                                                   0.4496
                                                         0.5088
                                                                   0.4668
             0.4400 0.4561 0.4916 0.4773
                                                          0.4824
                                                                   0.4492
         0.4692
                                         -0.2266
                                                                                  0.0658
                                                                                             0.3735
    0.4599
  0.4773
                                           -0.0592
                                                                                0.1678
0.4947
  0.5156
                                              0.5431
                                                                               0.1280
                                                                                                0.4269
    0.5242
        0.5241
               0.5264 0.5423 0.5527
                                                                                   0.4864
                                      0.5598
                                                0.5168
                                                                                                    0.4343
 <u>203</u>
                                                                                        0.5414
                                         0.5604
                                                   0.6185
                                                                                                     0.4628
                                                                                              0.5210
                                            0.5678
                                                      0.5218
       0.4586
```

0.4909

0.5059

0.4766

0.4673

0.5059

0.4599

0.4816

0.4922

NACAL 292 RUN 102 DATE 24 OCT 80 TIME 08.10 RECOMP. NO. 1 JOB NO. 11 . DISK 1 PAGE 20 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 MOD 89 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, ACO DATE 22 AUG 80 0.00 MEAN=32 DEG, CMU=1 DATA POINT 10 0.3639 0.5241 0.4510 0.5202 0.4563 0.4319 0.4642 0.4996 0.4686 0.4493 0.4855 0.4238 0.4375 -0.1936 0.0789 0.4897 0.3698 -0.0647 0.4584 0.1914 0.5238 0.5518 0.5316 0.1354 0.5366 0.4447 0.5449 0.5574 0.5655 0.5760 0.5187 0.4921 (. 42 -1 0.5789 0.6061 0.5562 0.4688 0.5805 0.5164 0.5411 0.4474 0.4362 0.4356 0.5102 0.4878 0.5059 0.5189 0.4934 0.4996

NACAL 292 **RUN 102** DATE 24 OCT 80 TIME 08.10 RECOMP. NO. 1 DISK 1 PAGE 24 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 22 AUG 80 0.12 JOB 110. 11 MOD 89 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=1 DATA POINT 12 0.2398 0.5284 0.3413 6.5310 0.3925 0.4037 0.4101 0.3360 0.4518 0.4294 0.4195 -0.1258 0.1236 0.4642 0.4136 0.4611 0.4928 -0.0207 0.2217 0.4835 0.2442 6.5238 0.5792 0.4548 0.5469 0.5494 0.5621 0.5863 0.5868 0.5250 0.5913 0.4675 0.4445 505 0.5791 0.5995 0.5959 0.4668 0.5497 0.5964 0.5446 0.3555 0.3598 0.3200 0.5307 0.4822

0.4798

0.5307

0.4934

0.5295

							ń			
IACAL 2	292 F	RUN 103	DATE 24	OCT 80	TIME 08.18	RECOM	P. NO. 1	DISK	1 P/	AGE 22
IOB NO.	11	LDGR. ACCT	31302	CONTRACT	1631 SUB	ACCT 10001	, was	ACO DATE	22 AUG 80	0.19
MOD 90	ALPHA 1		AUGMENTOR EAN=32 DFG		DEG, FWD=32	DEG,AFT=32	DEG,	$^{\mathtt{P}}\mathtt{T}_{\mathtt{S}}$	P _A	
		•••	CAN DE CITE	, 00 2				14.77	14.233	
					SUMMARY PAGE					
' T NO	ALPHA F	H Q H THETA	CLH THRUST	C DH D EL A I	CMH WFT	ҮМ • ТНТН	RL CMUTH	PTPFCH CDR	PTPCRH CDHR	PTPACH
1	1.7804 0.9500		2.8401 403.2930	-0.5160 1.7160		3692.0915 261.4292	10229.8149	1.9322 0.4999	1.9203 -1.0159	1.9341
2	-2.400 0.9500		2.4789 365.7975	-0.6875 1.490	•	3712,3326 260.5273	9318.5078 1.8322			1.9332
3	-6.5918 0.9500		2.0334 316.5180	-0.8246 1.2243		3759.9192 261.1125	8084.5167 1.8101	1.9313 0.4914	1.9725 -1.3160	1.9336
506 4	-10.5521 0.9500		1.6674 271.3893	-0.9699 1.0052		3970.3218 262.4462	6795.5718 1.8654	1.9350 0.4992	1.9289 -1.46°1	1.9380
5	1.7096 0.9500		2.8302 404.9272	-0.5221 1.7096		3672.3779 261.0574	10272.6279 1.8554		1.9268 -1.0194	1.9265
6	5.8250 0.9500		3.2159 454.3442	-0.3149 1.9570		3598.1771 261.6607	11399.8188 1.8609		1.9266	1.9353
7	9.9472 0.9500		3.5420 496.5661	-0.1177 2.1732		3651.1796 260.6267	12235.0688 1.8601	1,9262 0,4975	1.9240 -0.6153	1.9303
8	13.9969 0.9500		3.9596 553.9826	0 •1385 2 •454]		3688.3390 262.6748	13493.0216 1.8786	1.9346 0.5008	1.9340 -0.3622	1.9259
9	18,0562	10.1853	4.3533	0.4089	0.6188	3867.8307	14434.5314	1.9359	1.9317	1.9378

8.0323

0.7343

7.9940

262,3406

261.8726

4072.8144 15359.1121

1.9044

1.9526

0.5043

1,9385

0.5100

-0.0954

1.9296

0.2036

1.9263

0.9500

22.3242

0.9500

10

84.6330

9.8786

81.5372

604.6096

650.3556

4.7965

2.72 92

0.7136

3.0411

. .

RUN 103 DATE 24 OCT 80 TIME 08.16 RECOMP. NO. 1 DISK 1 PAGE 10 NACAL 292 CONT RACT JOB NO. 11 **SUB ACCT 10001** ACO DATE 22 AUG 80 0.14 LDGR ACCT 31302 1631 MOD 90 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 DATA POINT 5 0.1516 0.5282 0.3397 0.5298 0.3252 0.4133 0.3306 0.4669 0.4614 0.5086 0.4632 -0.22980,2582 0.4837 -1.0348 0.4694 -0.8545 -0.23590.5223 0.5372 0.4390 0.5340 0.4881 -0.2004 0.5403 0.5389 0.4465 0.5459 0.5607 0.5661 0.4635 0.5729 0.4927 0.5640 507 0.5762 0.7456 0.4636 0.5471 0.5797 0.5321

0.5279

0.4769

0.4750

0.5279

0.4800

0.4626

0.4576

0.4825

1

0.4663

```
PAGE 14
                                                 TIME 08.17
                                                                                      DISK 1
                                                                  RECOMP. NO. 1
               RUN 103
                             DATE 24 DCT 80
NACAL 292
                                                                                   ACQ DATE 22 AUG 80 0.16
                                      CONTRACT 1631
                                                         SUB ACCT 10001
JOB NO. 11
                  LDGR ACCT 31302
MOD 90 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                          MEAN=32 DEG, CMU=2
DATA POINT 7
                                                              0.2157
                                                         0.5371
                                                                   0.3830
                                                                   0.3350
                                                         0.5369
                                                                   0.3483
                                                         0.4201
             0.4545 0.4470 0.4750 0.4576
                                                                                 -0.2273
                                                                                             0.2327
                                         -1.0018
         0.4526
     0.4340
                                                                               -0.2591
                                           -0.8093
   0.5074
 0.5130
                                                                              -0.3423
                                                                                                0.4136
                                               0.4512
   0.5364
     0.5487
         0.5456
                                                                                   0.4559
               0.5636 0.5820 0.5772
                                                                                                   0.4354
                                       0.5868
                                                 0.4754
                                                                                        0.5714
  508
                                                    0.7159
                                         0.5929
                                                                                                     0.4879
                                                                                              0.5525
                                            0.5893
                                                       0.5188
```

0.4178

0.4402

0.4502

0.5285

į.

0.4794

0.4676

⊕.4837

0.5260

0.4663

12_

NACAL 292 **RUN 103** DATE 24 OCT 80 TIME 08.17 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 22 AUG 80 0.17 MOD 90 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 DATA POINT 8 0.1534 0.5321 0.2632 0.5323 0.3258 0.3973 0.4004 0.4346 0.4271 0.3929 0.3352 0.4327 -0.9749 0.3296 -0.22430.4744 0.4980 -0.8661 -0.3141 0.4900 0.5273 0.4844 -0.3239 0.4034 0.5432 0.5431 0.5618 0.5816 0.5806 0.4480 0.5930 0.4711 0.4063 509 0.5769 0.5935 0.6759 0.4556 0.5548 0.5878 0.5109 0.4141 0.3886 0.2636 0.5186 0-4570

0.4558

0.5242

0.4688

0.5179

DATE 24 OCT 80 NACAL 292 **RUN 103** TIME 08.18 RECOMP. NO. 1 DISK 1 PAGE 20 LDGR ACCT 31302 CONTRACT 1631 JOB NO. 11 SUB ACCT 10001 ACQ DATE 22 AUG 80 0.18 MOD 90 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 DATA POINT 10 0.1293 0.5245 0.2884 0.5258 0.3018 0.3214 0.2052 0.3693 0.4079 0.2234 0.3080 0.4017 -0.9333 -0.2145 0.3273 0.4216 0.4626 -0.9113 -0.21390.4682 0.5052 0.5043 -0.1858 0.3743 0.5221 0.5363 0.5516 0.5789 0.5840 0.4562 0.5865 0.4052 0.4055 0.5751 0.5864 0.6065 0.4471 0.5474 0.5916 0.5256 0.2313 0,2512 0.1927 0.5235 0.4141 0.4116 0.5254 0.4415 0.4216 0.5248

RUN 104 DATE 24 DCT 60 TIME 08.28 RECOMP. NO. 1 DISK 1 PAGE 22 NACAL 292 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 **SUB ACCT 10001** ACQ DATE 22 AUG 80 17.10 MOD 91 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG. CMU=4 14.57 14.292 SUMMARY PAGE ON TC ALPHA H A H CLH CDH CMH YM RL **PTPFCH PTPCBH** PTPACH PHI THETA THR UST DELAL WFT · THTH CMUTH CDR CDHR 2.1791 0.2282 1 5.5781 4.0824 -1.4680 4465.2539 7825.2795 1.9620 1.9594 1.9557 8.0481 0.9500 -70.2215 328.5431 2.2178 265.6686 3.5081 0.6853 -2.1533 2 -1.9748 5.6144 3.5462 -1.7008 0.0947 4484.3356 7107.0118 1.9685 1.9597 -1.9601 0.9500 -64.3774 299.7827 1.9245 8.0473 266.0129 3.4899 0.6831 -2.3839 2.9475 3 -6.2054 5.6565 -1.9369 -0.0422 4580.1958 6313.8247 1.9631 1.9597 1.9573 0.9500 -56.6898 270.8515 1.6026 8.0348 265.5756 3.4583 0.6798 -2.6168 4 -10.3596 5.5574 2.4072 -2.1321 -0.1926 4662.3415 5447.0118 1.9635 1.9510 1.9555 0.9500 242.6237 1.3168 7.9809 3.4915 0.6815 -2.8136 -48.4680 263.4322 5 2.1439 5.5424 4.0634 -1.49700.2272 4480.8690 7803.8887 1.9619 1.9544 1.9533 7.9765 0.9500 -69.7755 325.8415 2.2042 263.4549 3.5013 0.6822 -2.1792 6 6.2029 5.4132 4.6885 -1.21170.3603 4385.7263 8544.4428 1.9657 1.9546 1.9548 0.9500 -75.5092 7.9851 -1.9031 355.8848 2.5489 264.0431 3,5928 0.6914 7 10.5313 5.2284 5.2815 -0.8954 4357.0403 9312.3995 1.9560 0.5011 1.9597 1.9596 0.9500 -80.3769 2.8852 7.9817 -1.5923 387.5183 264.1280 3.6512 0.6968 8 14.6502 5.2789 5.7531 -0.5490 0.6354 4377.2116 9977.8306 1.9621 1.9566 1.9584 0.9500 7.9737 264.0451 3.6843 0.6995 -1.2486 -84.5484 414.1812 3.1733 9 5.2515 0.7600 4391.8507 10700.7598 18.8405 6.2311 -0.10721.9611 1.9571 1.9608 0.9500 -89.0143 444.3164 3.4914 7.9642 263.9520 3.7022 0.7008 -0.8080 10 23.0529 5.0411 6.8342 0.2836 0.8900 4543.3690 11233.0846 1.9595 1.9538 1.9598 0.9500 87.6231 468.1279 3.8531 7.9668 264.0206 0.7160 -0.43243.8577

NACAL 292 RUN 104 DATE 24 DCT 80 TIME 08.26 RECOMP. NO. 1 DISK 1 PAGE 10 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 22 AUG 80 17.05 MOD 91 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=4 DATA POINT 5 -0.1270 0.2789 -0.1515 0.2823 0.0518 0.2342 0.2243 0.2664 0.2243 0.1522 -0.1923 0.2565 -1.4376 0.2435 -0.6609 0.2004 0.2534 -1.5400 0.2695 -0.5366 0.2788 0.2026 0.2863 -0.3837 0.2576 0.2863 0.2891 0.2970 0.3018 0.1797 0.3042 0.2130 0.2672 0.2954 0.3030 0.4913 0.2786 0.2948 0.3053 0.2399 0.2261 0.2175 0.2243

0.2119 0.2268

0.2646

0.2751

0.2236

0.2187

ç

PAGE 14 DISK 1 TIME 08.27 RECOMP. NO. 1 DATE 24 GCT 80 NACAL 292 **RUN 104** ACQ DATE 22 AUG 80 17.67 SUB ACCT 10001 CONTRACT 1631 LDGR ACCT 31302 JOB 110. 11 MUD 91 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DFG, AFT=32 DEG, MFAN=32 DEG, CMU=4 DATA POINT 7 -0.1272-0.02680.2775 0.0163 0.2769 -0.0016 0.1490 0.1970 0.2014 0.2633 0.1803 0.2016 -0.5214-1.4273 0.2330 0.2175 -0.4465 -1.52960.2441 0.2447 0.2433 -0.42270.1914 0.2754 0.2850 0.2907 0.1737 0.3025 0.3064 0.2942 0.2590 0.3096 0.2081 0.3035 0.4815 0.3083 0.2743 0.2974 0.3061 0.2866 0.2838 0.2057 0.2001 0.2856 0.2224 0.2640 0.2001 0.1871 0.1871 0.2007

NACAL 292 **RUN 104** DATE 24 OCT 80 TIME 08.27 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 22 AUG 80 17.08 MOD 91 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=4 DATA POINT 8 -0.1690 0.2777 -0.11290.2786 0.0148 0.1883 0.1828 0.2392 0.1877 0.1337 -0.1200 0.2206 -1.4242-0.4178 0.1843 0.2691 0.2286 -1.5125 -0.509R 0.2447 0.2700 0.2119 -0.3850 0.2391 0.2820 0.2885 0.2956 0.3061 0.3089 0.1814 0.3095 0.2690 0.2613 0.2967 514 0.3079 0.5092 0.2687 0.3012 0.3103 0.2510 0.1865 0.1555 0.1400 0.2739 0.1834 0.2007 0.2850 0.2032 0.1939 0.2782

PAGE 20

NACAL 292 ACQ DATE 22 AUG 80 17.09 CONTRACT 1631 SUB ACCT 10001 . LDGR ACCT 31302 J68 NO. 11 MOD 91 ALPHA WIND ON RUN, AUGMENTOR 2, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=4 DATA POINT 10 0.0575 0.2723 0.1371 0.2734 0.1271 0,1169 0.0407 0.1233 0.0694 0.1896 0.1722 0.1842 -0.5312 -1.37006.1983 0.2007 0.2200 -1.5156-0.4392 5.2243 0.2113 -0.4276 0.2350 0.2570 0.2671 0.2833 0.1993 0.2899 0.3032 0.3086 0.3073 0.2493 0.1916 0.2982 0.3044 0.4427 515 0.2623 0.2967 0.3078 0.2979 0.0793 0.2689 0.1797 0.1760 0.2763 0.0743 0.0458 0.2801 0.1834 0.1753

TIMF 08.28

DATE 24 DCT 80

RUN 104

1

DISK 1

RECOMP. NO. 1

			0.177 0.1		***	D.C.COUE		07.54		ACT DO
MACAL	292 R	UN 106	DATE 24	EICT 80	TIME 08.40	KECOMP	. NO. 1	DISK	1 P	AGE 22
JOB NO	. 11	LDGR ACCT	31302	CONTRACT	1631 SUB	ACCT 10001	L	ACO DATE	22 AUG 80	18.13
MOD 8	5 ALPHA W				DEG, FWD=32	DEG,AFT=32	DEG.	$^{\mathtt{P}}\mathtt{T}_{\mathtt{S}}$	P _A	
		M	EAN=32 DEG	CMO=I				15.10	14.292	
					SUMMARY PAGE					
PT NO	ALPHA H	о н	CEH	Сон	СИН	YM	RL	PTPFCH	PTPCBH	PTPACH
	PHI	THETA	THRUST	DELAL	. WFT	- THTH	CMUTH	CDR	CDHR	
1	0.5921	15.1291	1.3705	0.0559	-0.0468	1258.0202	5189.6289	1.3760	1.3739	1.3782
	0.9500		195.3921	0.6246		121.8456	Ū.8555	0.3838	-0.3239	
2	-3.2072	15.0533	1.1598	-0.0156	-0.1401	1102.0853	4673.8631	1.3793	1.3736	1.3774
	0.9500		164.3910	0.5274		121.4690	0.8571	0.3836	-0.4632	
3	-7.3442	15.0787	0.9425	-0.0885	-0.2353	1062.2138	4046.4192	1.3827	1.3745	1.3780
	0.9500	-84.6319	134.3884	0.4285	5.2045	121.9225	0.8589	0.3842	-0.4728	
4	-11.2433	15.0214	0.7835	-0.1512	-0.3349	979.0166	3444.7170	1.3807	1.3738	1.3787
•	0.9500	- 79.0725	112.8444	0.3567	5.1944	121.5793	0.8597	0.3843	-0.5355	
5	1 0.6608	14.8635	1.4263	0.0666	-0.0543	1198.8754	5259.6633	1.3808	1.3754	1.3756
- · ·	0.9500	87.3264	199.8015	0.6501	5,1973	121.7638	0.8702	0.3867	-0.3201	
6	4.5736	14.8588	1.6304	0.1489	0.0374	1416.7652	5774.6929	1.3810	1.3767	1.3764
	0.9500	84.7808	229.0154	0.7456	5.1936	121.7951	0.8707	0.3866	-0.2376	
7	8.6084	15.1513	1.6249	0.2502	0.1569	1425.0210	6302.3789	1.3756	1.3779	1.3762
	0.9500	82.1906	262.7356	0.8388	5.2037	121.8835	0.8545	0.3837	-0.1334	
8	12.5080	15.0055	2.0616	0.3146	0.2312	1768.6700	6689.0570	1.3771	1.3773	1.3757
	0.9500	81.3219	294.6122	0.9503	5.2022	121.9084	0.8629	0.3857	-0.0710	
9	16.4672		2.3001	0.4211		1965.8009	7222.9399	1.3758	1.3768	1.3742
	0.9500	79.6234	329,5287	1.0663	5.1718	121.0512	0.8589	0.3841	0.0370	
10	20.5003		2.4943	0.5517		2228.2278	7501.6584	1.3771	1.3763	1.3750
	0.9500	77.5265	355.4688	1.1654	5.1816	121,3586	0.8721	0.3875	0.1642	

1:4 CAL 292 RUN 106 DATE 24 OCT 80 TIME 08.36 RECOMP. NO. 1 DISK 1 PAGE 2 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 22 AUG 80 17.59 MOD 85 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=1 DATA POINT 1 0.5125 0.7709 0.6910 0.7748 0.7070 0.7512 0.7543 0.7555 0.6842 0.6713 0.7203 -0.07840.3669 0.7605 0.5544 0.8793 -0.0656 0.8445 0.8126 0.8218 0.4629 0.6810 0.8144 0.8156 0.7536 0.8238 0.7902 0.6799 0.8224 0.8761 0.8058 0.6662 0.8331 0.7760 0.7701

0.7741 0.7537

0.7655 0.7543

0.7562

0.7562

0.7630

0.7500 0.7401 0.7692

DATE 24 OCT 80 TIME 08.39 RECOMP. NO. 1 DISK 1 NACAL 292 RUN 106 PAGE 14 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 22 AUG 80 18.10 JOB NO. 11 LDGR ACCT 31302 MOD 85 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=1 DATA POINT 7 0.5409 0.7769 0.6825 0.7720 0.7115 0.6776 0.7222 0.7539 0.6736 0.6656 0.6015 -0.0529 0.3657 0.5823 0.7977 -0.0036 0.5625 0.8817 0.8317 0.4579 0.6859 0.8670 0.8522 0.8368 0.8391 0.7874 0.7595 0.6731 0.8778 0.8139 0.8443 0.6862 0.7832 0.7695 0.8442

and the said
0.7209

0.7191

0.7655

0.6330

0.6559

0.6850 0.7636

Continued Continued

0.7605

0.7215 0.7277

RUN 106 DATE 24 OCT 80 TIME 08.39 RECOMP. NO. 1 DISK 1 PAGE 16 MACAL 292 SUB ACCT 10001 CONTRACT 1631 ACO DATE 22 AUG 80 18.11 LDGR ACCT 31302 30B NO. 11 MOD 85 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=1 8 THICH ATAC 0.5229 0.7577 0.6726 0.7646 0.7074 0.7502 0.6717 0.5848 0.6262 0.3713 0.6790 0.6015 0.0773 0.4870 0.5384 0.7043 0.1571 0.8628 0.4517 0.6841 0.8752 0.8255 519 0.8578 0.8488 0.7644 0.8451 0.7794 0.6719 0.8150 0.8667 0.8479 0.6768 0.7774 0.8409 0.7890 0.7562 0.7054 0.7673 0.5742 0.5458 0.5872 0.6330 0.6689 0.7568 0.6894

:

NACAL 292 **RUN 106** DATE 24 DCT 80 TIMF 08.40 RECOMP. NO. 1 DISK 1 PAGE 20 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACD DATE 22 AUG 80 18.12 MOD 85 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=1 DATA POINT 10 0.4894 0.7529 0.6784 0.7518 0.7084 0.4078 0.4455 0.6622 0.6699 0.4418 0.0080 0.2508 0.3273 0.6342 0.5674 0.3416 0.5136 0.7667 0.8602 0.8416 0.8658 0.8530 0.4678 0.6796 0.8457 0.7342 0.7724 0.6754 0.8587 0.8695 0.8153 0.8459 0.7967 0.6788 0.7780 0.4845 0.4109 0.4226 0.7525 0.4678 0.5817 0.7593 0.6083 0.6114 0.7574

NACAL 292 RUN 107 DATE 24 OCT 80 TIME 08.47 RECOMP. NO. 1 DISK 1 PAGE 22

SUB ACCT 10001

MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
MEAN=32 DEG, CMU=2 Q=15.4

CONTRACT 1631

LDGR. ACCT 31302

JOB NO. 11

P_T P_A 15.10 14.292

ACQ DATE 22 AUG 80 18.31

SUMMARY PAGE

PT NO	ALPHA H PHI	O H THETA	CLH THRUST	C DH D EL A L	CMH WFT	М НГНТ	RL CMUTH	PTPFCH COR	PTPCRH CDHR	PTPACH
1	0.8426 0.9500	15.0507 -79.1958	2•3588 340•2468	-0.4501 . 1.0342	-0.0964 7.9359	3721.3794 257.2472	9081.4586 1.8155	1.9006 0.5876	1.8945 -1.0378	1.8982
2	-2.8091 0.9500	15.0529 -76.4551	2.2082 321.8863	-0.5319 0.9662	-0.1720 7.9403	3359.7440 257.4491	8890.8405 1.8167	1.9017 0.5881	1.8940 -1.1201	1.8950
3	-6.8535 0.9500	15.2415 -72.2443	2.0261 305.2605	-0.6487 0.8840	-0.2309 7.9079	3184.3991 256.1878	8428.8188 1.7854	1.8944 0.5826	1.8946	1.8948
5 2 1	-10.7293 0.9500	14.8566 -67.3382	1.8880 286.1619	-0.7883 0.8266	-0.3043 7.8962	3254.8272 255.9165	7654.3385 1.8298	1.8955 0.5895	1.8916	1.8896
5	1.1474 0.9500	15.1252 -80.1085	2.4121 348.6433	-0.4206 1.0585	-0.0803 7.9167	3583.7219 256.9281	9247.6613 1.8044	1.8970 0.5862	1.8927 -1.0958	1.8917
6	5.0950 0.9500	14.8621 -83.6301	2.6813 377.4869	-0.2993 1.1803	-0.0179 7.9119	3900.2032 257.0025	9553.8247 1.8368	1.8988	1.8954 -0.8967	1.8890
7	8.8702 0.9500	14.7833 -86.7109	2.5659 414.0135	-0.1706 1.3123	0.0698 7.8792	4081.3597 255.8284	10022.7873	1.8983 0.5908	1.8414 -0.7615	1.8880
8	13.0782 0.9500	14.6050 89.8948	3.3360 458.6775	0.0061 1.4830	0.1373 7.8990	4319.2253 256.6567	10609.5688	1.8960 0.5961	1.8911 -0.5900	1.8900
9	17.0092 0.9500	14.8888 87.2677	3.4781 488.01F8	0.1599 1.5591	0.2159 7.8565	4695 •6929 256 •8578	10709.0019	1.8974 0.5905	1.8938 -0.4365	1.8387
10	21.0629 0.9500	14.8657 83.8425	3.7709 530.7882	0.4068 1.7119	0.2833 7.8909	4876.0245 256.5121	11170.8818 1.8329	1.8987 0.5907	1.8864 -0.1839	1.3892

NACAL 292 RUN 107 DATE 24 DCT 80 TIME 08.44 RECOMP. NO. 1 DISK 1 PAGE 2 JOB MO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 22 AUG 80 18.18 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MFAN=32 DEG, CMU=2 Q=15.4 DATA POINT 1 0.4580 0.7726 0.6477 0.7723 0.6767 0.6952 0.6797 0.6926 0.6468 0.6234 -0.9067 0.0321 0.5475 0.6679 0.8691 -0.9134 0.0340 0.8693 0.8240 0.7447 -0.0864 0.6343 0.8268 0.8252 0.8254 0.7634 0.6816 0.6457 0.8329 1.0126 0.7965 0.6502 0.8340 0.6852 0.7646 0.7131 0.6945 0.7020 0.7682 0.6896 0.6791 0.7713 0.6828 0.6884 0.7719

**

· 6

. . .

NACAL 292 **RUN 107** DATE 24 OCT 80 TIME 08.46 RECOMP. NO. 1 DISK 1 PAGE 14 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACO DATE 22 AUG 80 18.28 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG. CMU=2 Q=15.4 DATA POINT 7 0.4680 0.7643 0.6497 0.7675 0.6872 0.5961 0.6370 0.6371 0.6853 0.4816 -0.8689 0.0544 0.5396 0.4308 0.7205 -0.8057 0.0037 0.8539 0.8673 0.7428 -0.13140.6440 0.8550 0.8403 0.8362 0.7544 0.6804 0.6261 0.8416 1.0212 0.8044 0.6546 0.8368 0.6597 0.7743

0.5311 0.5819 0.7633 0.6456 0.6265 0.7552 0.6531

₿₽¤ "ı

0.5361

0.7546

NACAL 292 **RUN 107** DATE 24 DCT 80 TIME 08.46 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 22 AUG 80 18.29 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 Q=15.4 DATA POINT 8 0.4620 0.7655 0,6657 0.7686 0.7006 0.4791 0.5614 0.6981 0.6520 0.4853 -0.5677 0.0742 0.5226 0.2287 0.6172 -0.5659 0.0204 0.8226 0.8770 0.7657 -0.1515 0.6398 0.8729 0.8548 0.8494 0.7614 0.6964 0.6637 0.8525 1.0294 0.8104 0.6701 0.8534 0.7129 0.7813 0.4643 0.4321 0.4519 0.7558 0.5410 0.5905 0.7571 0.6370

0.6475

DATE 24 CCT 80 TIME 08.47 RECOMP. NO. 1 MACAL 292 **RUN 107** CONTRACT 1631 SUB ACCT 10001 JOB 110. 11 LDGR ACCT 31302 MOD 86 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=2 Q=15.4 DATA POINT 10 0.6051 0.7827 0.6912 0.7637 0.7222 0.6054 0.6784 0.2395 0.3825 0.3396 0.1547 -0.54640.2476 0.2649 0.0588 0.4407 -0.41740.7146 0.6318 0.8041 -0.0462 0.8784 0.8954 0.8858 0.7032 0.8775 0.7237 0.6469 0.8476 0.8818 1.0646 0.7200 0.8174 0.8727 0.7348 0.3398

DISK 1

PAGE 20

ACO DATE 22 AUG 80 18.30

0.5633 0.5676 0.6141 0.7707 0.7695 0.7763 0.2705 0.2234 0.3599

NACAL	292 R	UN 108	DATE 24	OCT 80	TIME 08.56	RECOME	P. NO. 1	DISK	1	PAGE 22
JOB 110	11	LDGR ACCT	21202	CONTRACT 1	1631 SUB	ACCT 1000		ACQ DATE	22 Alic s	10 19 54
י טיו פטע	• 11	LDGK ACCI	31302	CUMINACI	1651 300	ACC1 10001				10 TO • 24
MOD 87	7 ALPHA W	IND ON RUN,	AUGMENTOR	1, C/B=60 E	DEG, FWD=32	DEG,AFT=32	DEG,	$^{\mathtt{P}}_{\mathtt{T}_{\mathbf{S}}}$	^{P}A	
		М	EAN=32 DEG	CMU=4				^S 14.70	14.296	
				9	SUMMARY PAGE			14.70	14.270	
17 NO	4.5/.4	0.15		60.11	6411	2/14		0705011	5=540.	
סא די	ALPHA H PHI	O H THETA	CLH THRUST	CDH Delal	CMH WFT	YM Thth	RL CMUTH	PTPFCH CDR	PTPCBI CDHR	I PTPACH
	PHI	INCIA	114031	DELAL	. WEI	1010	CHUIT	CDR	GDIIK	
1	1.6895		4.5081	-1.35 98	-0.0874	4231.8566	8291.8976	1.9431	1.9318	1.9350
	0.9500	-73.2143	339.6670	1.8086	7.9192	260.8420	3.6160	0.8325	-2.1923	3
2	-2.3363	7.7401	4.1297	-1.6187	-0.0889	4158.4842	7825.7480	1.9413	1.9350	1.9394
•	0.9500		323.2100	1.6463	7.9193	261.0983	3.5832	0.8283	-2.447]	
_					•					
3	-6.4842		3.5054	-1.9121	-0.1985	4257.4852	6906.9803	1.9445	1.9375	
	0.9500	-61,4159	288.7882	1.3959	7.9302	261.8644	3.6239	0.8334	-2.7455)
4 .	-10.5245	7.7645	2.8786	-2.0787	-0.2937	4385.0728	6008.3621	1.9466	1.9392	1.9414
5 2 6	0.9500	-54.1659	259.5413	1.1527	7.9321	262.0402	3.5849	0.8288	-2.9076	•
5	1.7106	7.7967	4.5425	-1.32.02	-0.0449	4176.2017	8420.1259	1.9463	1.9400	1 • 9449
5	0.9500		347.2101	1.8250	7.9222	261.9257	3.5685	0.8261	-2.1463	
	0 6 3 2 0 0	15.750	54102101	1.0230	1 4 12 22	20147231	5.5005	0.02.01	E. O L. TO.	,
6	5.7295		4.7288	-1.0576	-0.0489	4340.7480	8570.2677	1.9491	1.9394	
	0.9500	-77.3927	352.6465	1.9205	7.9356	262.5074	3.6071	0.8314	-1.8891	•
7	9.6905	7.8182	4.9509	-0.8043	0.0005	4508.4269	8805.2106	1.9480	1.9408	1.9350
·	0.9500		369.1712	2.0310	7.9392	262.7261	3.5696	0.8273	-1.6317	
		- Dr.								
В	13.6798		5.3745	-0.4914	0.0855	4547.8129	9283.1613	1.9475	1.9359	
	0.9500	-84.7752	,894.2481	2.2266	7.9068	261.5182	3.5800	0.8272	-1.3167	1
9	17.7884	7.5737	5.9294	-0.0801	0.1061	4616.5137	9529.0905	1.9459	1.9360	1.9365
	0.9500	-89.2255	422.8032	2.4878	7.9049	261.5481	3.6683	0.8374	-0.9175	5
10	22.0191	7.4758	6.5075	0.3995	0.2051	4682.8169	9964.9015	1.9439	1.9384	1.9340
TO	0.9500		458.8501	2.7744	7.9101	261.8877	3.7211	0.8437	-0.4442	
	0.0000	0014003	エンじゅじしょ	4.1174	1 9 7 1 1	501.0011	201611	0 0 0 7 3 /	17677776	•

0.3404

0.3551

0.2765 0.3904

DATE 24 OCT 80 TIME 08.52 NACAL 292 RUN 108 RECOMP. NO. 1 DISK 1 PAGE 2 JOB NO. 11 CONTRACT 1631 LDGR ACCT 31302 SUB ACCT 10001 ACQ DATE 22 AUG 80 18.40 MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG, CMU=4 DATA POINT 1 -0.03320.3854 0.2131 0.3892 0.2522 0.2790 0.2722 0.2587 0.1914 0.1942 -1.3453 -0.3266 0.2849 0.2066 0.3761 -1.2505-0.43910.4356 0.4349 0.3396 -0.4190 0.3077 0.4345 0.4282 0.2881 0.4222 0.3262 0.3418 0.4271 0.6036 0.4103

0.4245 0.3661

0.3953 0.2759 0.2672

0.3898

0.2858

0.2846 0.2518

0.2549

•

```
NACAL 292
              RUN 108
                            DATE 24 NCT 80
                                               TIME 08.54
                                                               RECOMP. NO. 1
                                                                                  DISK 1
                                                                                                PAGE 14
JOB NO. 11
                 LDGR ACCT 31302
                                    CONTRACT 1631
                                                       SUB ACCT 10001
                                                                               ACQ DATE 22 AUG 80 18.51
 MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG,
                         MEAN=32 DEG, CMU=4
DATA POINT 7
                                                    0.1858
                                               0.3920
                                                         0.2612
                                               0.3940
                                                         0.3085
                0.1973 0.2549
                                                0.2968
                                                         0.2844
             0.1825
                            -1.1647
                                                                       -9.2816
                                                                                   0.1818
            0.0742
           0.2926
                              -1:1118
                                                                     -0.3989
            0.4214
             0.4507
                                0.3625
                                                                    -0.4981
                                                                                      0,2749
                0.4495 0.4472
                             0.4404
                                      0.3589
                                                                         0.2994
                                                                                         0.2880
                                0.4379
                                         0.6905
                                                                              0.4108
                                                                                           0.3079
                                   0.4384
                                            0.3140
                                                                                    0.3942
       0.1720
               0.1645
                        0.2413
                                 0.4040
                                         0.2462
                                                  0.2592
                                                           0.4028
                                                                    0.2771
                                                                            0.2679
                                                                                     0.4077
```

NACAL 292 **RUN 108** DATE 24 OCT 80 TIME 08.55 RECOMP. NO. 1 DISK 1 PAGE 16 JOB NO. 11 LDGR ACCT 31302 CONTRACT 1631 SUB ACCT 10001 ACQ DATE 22 AUG 80 18.52 MOD 87 ALPHA WIND ON RUN, AUGMENTOR 1, C/B=60 DEG, FWD=32 DEG, AFT=32 DEG, MEAN=32 DEG. CMU=4 DATA POINT 8 0.2105 0.3936 0.3402 0.3976 0.3347 0.1553 0.2060 0.3045 0.2790 0.1416 -1.0449 -0.2816 0.1741 -0.01210.2153 -1.0668 -0.42330.3841 0.4500 0.3619 -0.5589 0.2866 0.4558 0.4527 0.4435 0.3707 0.2999 0.2892 0.4439 0.6887 0.4174 0.3265 0.4438 0.3214 0.3952 0.1373 0.1187 0.1324 0.4034 0.1967 0.2320 0.4040 9.2493 0.2573

NVCVL		RUN 108	DATE	24 NCT	. 80	TIME	08.55	i	RECOMP.	NO.	1	DIS	K 1	ı	PAGE 20
JOB NO.	• 11	LDGR	ACCT 31302	CON	TRACT	1631	SUB	ACCT	10001			ACO DA	TF 22		0 18.53
MOD 8	7 ALPI	NO GNIW AF	RUM. AUGMEN MEAN=32	TOR 1, DEG, CM	C/B=60 U=4	DEG, F							76 22	AUG 61	N 10.53
DATA PO	DINT 10)													
							0.0417								
						0.394	5 0.	1178							
						0.394	9 0.	3109							
		-0.0638 -0.1167 -0.0888	0.0643 -1.07	89		0.19	46 0.	.0715		-0.2	974	0.	1130		
530	O	.0470 0.2612	-1.	0686					-	-0.413	5				
6		0.4168 0.4493	0.4535	0.3743					-0	.3691			0.2669	}	
	•		0.4	512 0.	2955					0.2	2932		0.5	491	
			,	0.4495	0.672	2				•		4253	94 6		
				0.446	54 0 .:	3516						0.	6 4077	•3304	
•	-0.029	-0.0523	8080.0-	0.3941	0 .17	13 0.	1973	0.39	53 0.	1769	0.2	190	0.3966		

democrate democrate democrate democrate

4

NACAL 292 **RUN 110** DATE 24 OCT 80 TIME 09.09 RECOMP. NO. 1 DISK 1 PAGE 22 JOB NO. 11 CONTRACT 1631 LDGR ACCT 31302 **SUB ACCT 10001** ACQ DATE 22 AUG 80 23.16 # MOD 93 CMU VARIATION, ALPHA=> DEG, C/B=60 DEG, FWD=54 DEG, AFT=22 DEG, MEAN=38 DEG 14.70 14.316 SUMMARY PAGE PT NO ALPHA H H Q CLH CDH CMH YM RL PTPFCH PTPCBH **PTPACH** PHI THETA THR UST DELAL WFT THTH **CMUTH** CDR CDHR 1 0.9600 14.9262 2.0085 0.4635 0.2379 -664.1141 7763.4379 1.1546 1.1486 1.1538 1.2000 77.0042 289.6568 0.9354 3.5845 56.0771 0.3990 0.4565 0.0040 2 1.2617 15.0039 3.00 62 0.1652 0.4622 651.8358 11443.4015 1.3767 1.3710 1.3753 1.3000 86.8560 425.5501 1.3587 5.3667 124,2597 0.8797 0.6865 -0.5212 3 1.1391 15.1742 2.4955 0.3607 0.3107 -224.3922 9704.8385 1.2490 1.2438 1.2444 1.3000 81.7737 360.2010 1.1499 4.4005 85.3750 0.5976 0.5602 -0.1994531 1.4142 7.6369 3.4819 -0.2237 0.6299 1088.9512 6883.7755 1.2811 1.2736 1.2774 1.3000 -86.3227 250.8486 1.5209 4.5409 92.8399 1.2913 0.8256 -1.0494 5 1.5103 7.6563 -0.6835 4.0056 0.7619 2215,4478 7918.1968 1.4146 1.4087 1.4097 1.3000 -80.3250 293.1714 1.6865 5.4366 131.0329 1.8179 0.9876 -1.6711 6 1.5696 7.7002 4.3579 -1.02060.8292 3073.0418 8658.9960 1.5264 1.5154 1.5258 1.3000 -76.8189 324.4525 1.7860 6.1006 161.5385 2.2284 1.1052 -2.1258 7 1.6304 7.6783 4.7168 -1.4384 0.8977 4046,9330 9353.5216 1.6674 1.6554 1.6567 1.3000 -73.0467 356.5923 1.8777 6.8414 198,2500 2.7426 1.2428 -2.6812 8 1.7486 7.6071 5.1737 -1.7851 0.9629 4915.4635 10171.1456 1.7995 1.7945 1.7971 1.3000 -70.9632 391.9477 2.0052 7.5016 232.8253 3.2511 1.3703 -3.1554 9 1.7672 7.8506 5.4025 -2.0528 0.9925 5709.3877 10945.8995 1.9475 1.9387 1.9488 1.3000 -69.1947 427.1349 2.0579 8.1588 268.4712 3.6325 1.4690 -3.5218 10 1.8089 7.7462 5.6587 -2.3226 1.0211 6300.0934 11356.4881 2.0399 2.0394 2.0453

8.6146

293.0304

4.0183

1.5630

-3.8857

1.3000

-67.6837

446.0640

AR.

NACAL 2	92 R	IN 133	DATE 24	DCT 80	TIME 10.16	RECOM	P. NO. 1	DISK	2 F	AGE 22
JOB NO.	11	LDGR ACCT	22000	CONTRACT	163 SUB	ACCT 301	0	ACO DATE	5 SEP 80	22.25
MOD 113	CHORD	WING, WIND	ON, ALPHA	SWEEP, 22.6	SUMMARY PAGE			P _T S 14.40	P _A 14.345	
							•			
PT NO	ALPHA H PHI	O H Theta	CLH THRUST	CDH DELAL	CMH 	. YM HTHT	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.0732 0.0000	8.4870 51.5160	0.1016 10.3776	0.0808 0.0441	-0.0169 0.1553	104.8593 0.2401	104.2456 0.0030	0.9989 0.0000	0.9985 0.0807	0.9985
?	-3.9586 0.0000	8.5266 -70.2873	-0.2472 21.0856	0.0886 -0.1156	-0.1237 0.1354	124.7164 0.2125	-559.4810 0.0026	0.9985 0.0000	0.5985 0.0285	0.9986
3	-7.9799 0.0000	8.6227 -76.8513	-0.5570 46.4354		-0.2096 0.0235	197.7427 0.0497	-1174.8838 0.0006	0.9975 0.0000	0.5977 0.1301	0.5974
53 2	-11.8786 0.0000	8.7863 -74.5191	-0.7513 64.4842	0.2080 -0.3456	-0.2666 0.0670	289.2939 0.0959	-1637.6360 0.0011	0.9990	0.9988	0.9984
5	0.0449 0.0000	8.5654 53.9580	0.0854 8.5262	0.0622 0.0372	-0.0192 0.0538	137.7840 0.1156	90.4050 0.0014	0.9972 0.0000	0.0974 0.0621	0.9972
6	4.1315 0.0000	8.6520 78.2578	0.4315 35.9022	0.0897 0.1957	0.0952 0.0721	156.9785 0.1309	788.9863 0.0016	0.9984 0.0000	0.9983 0.0856	0.9974
7	8.0218 0.0000	8.4148 81.6445	0.7228 57.8771	0 •1 061 0 •32 \$5	. 0.2112 0.0582	232.0763 0.1320	1271.5098 0.0016	0.9971 0.0000	0.5970 0.1061	0.9970
B	12.0346 0.0000	8.4077 80.7552	0.9727 78.0040	0.1583 0.4449	0.3138 0.1478	299.6602 0.2015	1770.7482 0.0025	0.9594 0.0000	0.5987 0.1582	0.9987
9	15.8631 0.0000	8.4487 74.4003	1.0215 84.3617	0 •2852 0 •4653	0.2993 0.1218	359.2384 0.1742	1867.2431 0.0021	0.9988 0.0000	0.9988 0.2851	0.9788
10	19.7608 0.0000	8.2477 70.4107	1.1318 93.2809	0.4027 0.5233	0.3203 0.0478	333.0880 0.0996	1959.7652 0.0012	0.9976 0.0000	0.9977 0.4027	0.9971

0.0000

0.0000

0.0000

PAGE IF DISK 2 RECOMP. NO. 1 DATE 24 OCT 80 TIMF 10.14 **RUN 133** NACAL 292 ACQ DATE 5 SEP 80 22.21 SUB ACCT 3010 CONTRACT 163 LDGR ACCT 22000 JOB NO. 11 CHORD WING, WIND ON, ALPHA SWEEP, 22.62 INCHES MOD 113 DATA POINT 5 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000 0.0000 0.0000 0.0000 040000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0856 0.5000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0040 0.0000 0.0000 0.0000 0.00000.0000 -0.0045 0.0000

0.0000

0.0000

0.0000

0.0000

•

0.0000

0.0000

708 NO. 3 400 113 701 POIN	LDÇR CHORD WING.	DATE 24 DCT 80 ACCT 22000 CONTRACT WIND ON, ALPHA SWEEP, 22	TIME : 163 •62 INCHE	SUB ACCT	RECOMP. NO. 1 3010	DISK 2 PAGE 14 ACQ DATE 5 SEP 80 22.22
			0. 0.0000	0000		
			0.0000	0.0000		
ъ	0.0000 0.0000 0.0000 0.0509	0.0000	0.0000	0,0000	0.0000	0.0000
534,	0.0000	0.0000			0.000	
	0.0000	0.0000			0.0000	0 • 0000
		0.6000 0.0000			0.0000	
		0.0000 0.0000)		0,	.0000
		0.0222 0.0	1000			0.0000 0.0000
() •	0000 0.0000	0.0000 0.0000 0.000	0 0.000	0.0000	0.0000 0.0	000 0.0000

MACAL 292 RUN 133 DATE 24 DCT 80 TIME 10.15 RECOMP. NO. 1 DISK 2 PACE 16

JOR NO. 11 LDGR ACCT 22000 CONTRACT 163 SUB ACCT 3010 ACC DATE 5 SEP 80 22.23

MOD 113 CHORD WING, WIND ON, ALPHA SWEEP, 22.62 INCHES

PATA POINT 8

0.0000

0.000.0 0.0000

0.0000

0.0000 0.0000 0.0000 0.0000

0.0000 0.0000 0.0000 0.0000

0.0124 0.0000 0.0000

0.0000 0.0000 0.0000 0.0000 0.0000

0.0000 0.0000 0.0000 0.0000 0.0000

0.0000 0.0000 0.0000

6-30**.**0

0.0000 0.0000 0.0000

0.0501 0.0000 0.0000 0.0000

0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

TACAL 292 RUN 133 DATE 24 OCT 80 TIMF 10.16 RECOMP. NO. 1 DISK 2 PAGE 20 JOB NO. 11 LDGR ACCT 22000 CONTRACT 163 SUB ACCT 3010 ACO DATE 5 SEP 80 22.24 CHORD WING, WIND ON, ALPHA SWEEP, 22.62 INCHES MOD 113 DATA POINT 10 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.46000 0.0000 0.0062 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0564 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

0.0000

0.0000

NACAL	292 RI	UN 134	DATE 24	OCT 80	TIME 10.23	RECOM	P. NO. 1	nisk	2 P	AGF 22
COB NO	. 11	LDGR ACCT	22000	CONTRACT	163 SUB	ACCT 3010)	ACO DATE	5 SEP 80	22.5h
MOD 1	14 CHORD	WING, WIND	ON, ALPHA	SWEEP, CHOR	D=32 •62	. •		T _S	P A 4.345	
				S	UMMARY PAGE					
PT NO	АГЬНУ Н БНІ	O H THETA	CLH THRUST	CDH Delal	CMH WFT	YM • THTH	RL CMUTH	PTPFCH CDR	PTPCBH CDHR	PTPACH
1	0.0787 0.0000	8.6756 54.2848	0.0713 10.3466	0.0512 0.0449	-0.0072 0.1362	124.7376 0.2006	112.2913 0.0017	0.9993 0.0000	0.0955 0.0512	0.9096
?	-4.0026 0.0000	ชั•8195 - 76∙3525	-0.2416 29.7702	0.0586 -0.1619	-0.1261 0.0976	128.7624 0.2234	-754.2148 0.0018	0.9976 0.0000	ŋ。 <u></u> ﭘৢৢৢৢৢৢৢৢৢ ŋ。ŋ५४८	0.9971
3	-8.0993 0.0000	8.5789 -79.4130	-0.5193 61.5408	0.0970 -0.3467	-0.2385 0.1533	212.5628 0.2905	-1576.6313 0.0024	0.9987 0.0000	0.0974 0.0970	0.9981
537	-11.9956 0.0000	8.7456 -74.2787	-0.6580 81.1687		-0.3024 0.1372	216.8415 0.2426	-2119.2027 0.0020		0.9978 0.1851	0.9979
5	0.0683 0.0000	8.6786 49.5531	0.0603 9.3398	0.0514 0.0376	-0.0099 0.1428	131.3210 0.7286	82.3541 0.0019		0.9985 0.0513	0.9984
6	4.0816 0.0000	8.6910 79.7072	0.3355 40.2427		0.1107 0.1379	186.5762 0.2253	909.9111 0.0019		0•9980 0•9980	0.9983
7	8.1013 0.0000	8.5193 82.2237	0.6037 70.4781		0.2227 0.0646	254.4470 0.1583	1630.9862 0.0013	0.9973 0.0000	0.9964 0.0824	0.9944
8	12.1386 0.0000	8.4016 81.8514	0.8740 100.7126		0.3332 0.1359	311.2167	2386.5447 0.0018	0.9992 0.0000	0.9983 0.1251	0.9983
ò	16.0151 0.0000	8 • 5458 73 • 4468	0.9103 110.1887	0.2705 0.6088	0.3097 0.1568	258.2037 0.2384	2584.6053 0,0020		0.9985 0.2705	0.9982
10 .	19.9590 0.0000	* 8.6530 70.1400	0.9955 124.3492		0.3259 0.0606	336.7338 0.1480	2844.8518 0.0012		0.9962 0.3555	0.9967

```
MACAL 292
               RUM 134
                             DATE 24 DCT 80
                                                      10.19
                                                  TIME
                                                                  RECOMP. NO. 1
                                                                                      DISK 2
                                                                                                    PIGF 2
JOB MO. 11
                  LDGR ACCT 22000
                                      CONTRACT
                                                 163
                                                         SUB ACCT 3010
                                                                                   ACQ DATE 5 SEP 80 22.45
 MOD 114
           CHORD WING, WIND ON, ALPHA SWEEP, CHORD=32.62
DATA POINT 1
                                                             0.0000
                                                        0.0000
                                                                  0.0000
                                                        0.0000
                                                                  0.0000
             0.0000
                    0.0000 0.0000
                                     0.0000
                                                         0.0000
                                                                  0.0000
        0.0000
                                          5 3000
    6.0000
                                                                                 0.0000
                                                                                            0.0000
  0.0000
                                            0.0000
0.0000
                                                                               0.0000
  0.0000
                                             0.0000
    0.0000
                                                                              0.0000
                                                                                               0.0000
        0.0000
              0.0000 0.0000 0.0000
                                                                                  0.0000
                                     0.0000
                                               0.0000
                                                                                                  0.0555
  538
                                                                                       0.0000
                                        0.0000
                                                  0.0000
                                                                                                    0.6000
                                                                                             0.0000
                                           0.0155
                                                     0.0000
       0.0000
                0.0000
```

0.0000

0.0000

0.0000

0.0000

0.0000

0,0000

0.0000

PAGE 14 DISK 2 RECOMP. NO. 1 TIME 10.21 DATE 24 NCT 80 **RUN 134** MACAL 292 ACO DATE 5 SEP 80 22.54 SUB ACCT 3010 CONTRACT 163 LDGR ACCT 22000 JOB NO. 11 CHORD WING, WIND ON, ALPHA SWEEP, CHORD=32.62 MOD 114 DATA POINT 7 0.0000 0.0056 539 0.0000 0.0000 0.0000 0.0000 0.0000 0.0060 0.0000 0.0166 0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

```
12
```

```
PAGE 16
                                                 TIME 10.22
                                                                 RECOMP. NO. 1
                                                                                      DISK 2
                             DATE 24 OCT 80
NACAL 292
              RUN 134
                                                         SUB ACCT 3010
                                                                                   ACO DATE 5 SEP 80 22.54
                                      CONTRACT
                  LDGR ACCT 22000
                                                 163
JOB NO. 11
           CHORD WING, WIND ON, ALPHA SWEEP, CHORD=32.62
 MOD 114
DATA POINT 8
                                                              0.0000
                                                                   0.0000
                                                         0.0000
                                                         0.0000
                                                                   0.0000
                                                         0.0000
                                                                   0.0000
             0.0000 0.0000
                             0.0000 0.0000
                                                                                  0.0000
                                                                                             0.0000
                                          0.0000
         0.0000
     0.0000
                                                                                0.0000
                                             0.0000
   0.0000
 0.0000
                                                                               0.0000
                                                                                                0.0000
                                              0.0000
   0.0000
     0.0000
         0.0000
                                                                                   0.0000
                              0.0000
               0.0000 0.0000
                                                                                                   0.6000
                                       0.0000
                                                 0.0000
                                                                                        0.0000
                                                    0.0000
                                          0.0000
                                                                                                     0.0000
                                                                                              0.0000
                                                       0.0000
                                             0.0152
                                                                        0.0000
                                                                                 0.0000
                                                                                          0.0000
                                    0.0000
                                                      0.0000
                                                               0.0000
                                             0.0000
        0.0000
                 0.0000
                          0.0000
```

PAGE 20 DISK 2 RECOMP. NO. 1 TIME 10.23 DATE 24 OCT 80 **RUN 134** NACAL 292 ACQ DATE 5 SEP 80 22.56 SUB ACCT 3010 CONTRACT 163 LDGR ACCT 22000 JOB NO. 11 CHORD WING, WIND ON, ALPHA SWEEP, CHORD=32.62 MOD 114 DATA POINT 10 0.0000 0.0090 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000 0.0000 0.0000 0.0000 541 0.0000 0.0000 0.0000 0.0000 0.0000 0.0149 0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000

0.0000